

THE
WEEKLY WEATHER REPORT

OF THE
METEOROLOGICAL OFFICE

FOR THE YEAR

1898

(VOL. XV.—THIRD SERIES)

CONTAINING

SYNOPTIC CHARTS,

AND

DESCRIPTIVE SUMMARIES OF THE WEATHER FOR EACH DAY;

ALSO

TABULAR SUMMARIES OF TEMPERATURE, RAINFALL, AND
BRIGHT SUNSHINE, FOR EACH WEEK,

WITH MONTHLY SUPPLEMENTS AND TWO APPENDICES.

Published by the Authority of the Meteorological Council.



LONDON:

PRINTED FOR HER MAJESTY'S STATIONERY OFFICE,
By DARLING & SON, LTD., 1-3, GREAT ST. THOMAS APOSTLE, E.C.

And to be purchased, either directly or through any Bookseller, from
EYRE & SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; or
JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH, and
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HODGES, FIGGIS, & Co., LIMITED, 104, GRAFTON STREET, DUBLIN.

1899.

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ERRATA.

MONTHLY SUMMARIES.

January, p. iv. ...	... Braemar.—Rainfall—14 days ; total amount, 1·76 ins. ; difference from average, — 1·37 ins. Douglas.—Rainfall—17 days ; total amount, 2·80 ins. ; difference from average, — 1·58 ins. Blackpool.—Rainfall—Total amount, 3·03 ins. ; difference from average, + 0·15 in. Armagh.—Rainfall—Total amount, 1·81 ins. ; difference from average, — 0·99 in.
February, p. vii. ...	... Guernsey.—Bright Sunshine—Percentage of possible duration, 35 ; difference from average, + 3.
February, p. viii. ...	... Glencarron.—Rainfall—Total amount, 11·30 ins. ; difference from average, + 4·25 ins. Scarborough.—Rainfall—8 days ; total amount, 1·41 ins. ; difference from average, — 0·35 in. Gilecrux.—Rainfall—Total amount, 3·52 ins. Stonyhurst.—Rainfall—22 days ; total amount, 4·67 ins. ; difference from average, + 1·24 ins. Edenfel.—Rainfall—Total amount, 4·18 ins. ; difference from average, + 1·74 ins. Plymouth.—Temperature—Absolute minimum for the month, 29° on the 21st, 22nd, 24th, 25th.
March, p. xii. ...	... Scarborough.—Rainfall—Total amount, 1·51 ins. ; difference from average, — 0·28 in. ; date of maximum fall in one day is 29th.
April, p. xvi. ...	... Scarborough.—Rainfall—10 days ; total amount, 2·83 ins. ; difference from average, + 1·00 in. Churchstoke.—Temperature—Mean of minimum, 38°·0 ; mean of minimum and maximum combined, 46°·7 ; difference from average, + 2°·0 ; and the absolute minimum for the month, 26°. Cullompton.—Bright Sunshine—Total hours 155·6 ; difference from average, — 1·7 hours ; percentage of possible amount, 38, and difference from average, 0.
May, p. xx. ...	... Glencarron.—Rainfall—Total amount, 6·18 ins. ; difference from average, + 1·51 ins. Scarborough.—Rainfall—10 days ; total amount, 2·89 ins. ; difference from average, + 0·93 in. Churchstoke.—Temperature—Mean of minimum, 41°·2 ; of maximum, 56°·8 ; of minimum and maximum combined, 49°·0 ; difference from average, — 0°·7. Absolute minimum for the month 34° on 7th and 15th. Rainfall—4·13 ins. ; difference from average, + 1·92 ins. Llandovery.—Rainfall—Total amount, 4·06 ins. ; difference from average, + 1·29 ins. Edgeworthstown.—Rainfall—18 days ; total amount, 4·00 ins. ; difference from average, + 1·52 ins. ; and maximum fall in one day, 1·12 ins. on 2nd.
June, p. xxiv. ...	... Scarborough.—Rainfall—12 days ; total amount, 1·48 ins. ; difference from average, — 0·55 in. Hillington.—Rainfall—Total amount, 2·26 ins. ; difference from average, + 0·09 in. Londonderry.—Rainfall—Total amount, 2·80 ins. ; difference from average, + 0·30 in. Edenfel.—Rainfall—17 days ; total amount, 3·40 ins. ; difference from average, + 0·87 in.
July, p. xxviii. ...	... Cranley.—Rainfall—Total amount, 0·55 in. Laudale.—Rainfall—17 days ; total amount, 3·53 ins. ; difference from average, — 1·83 ins.
August, p. xxxii. ...	... Llandovery.—Rainfall—Total amount, 6·10 ins. ; difference from average, + 1·41 ins. ; and maximum fall in one day, 1·08 ins. on 18th. Falmouth.—Rainfall—15 days ; total amount, 2·63 ins. ; and difference from average, — 1·02 ins.
December, p. xlvi. ...	... Scarborough.—Rainfall—Maximum fall in one day, 0·45 in. on 29th.

PREFACE.

IN the Weekly Weather Report for 1898 the general arrangement of the weekly Remarks and Tabular matter is unaltered, and will be found on the first and second pages of each Report. The Charts cover the same area as those for last year, viz.: nearly the whole of Europe and the greater part of the Mediterranean.

Monthly Summaries of the observations made at the stations included in the Daily and Weekly Weather Reports again appear as a Supplement, but the Tables on the second and third pages have been slightly altered.

Appendices I. and II. are published, as hitherto—the former with some slight modification since 1891.

The general arrangement of the Report is as follows:—

LIST OF DISTRICTS.

For the purposes of this Report the United Kingdom is divided into eleven Districts, which are shown on the accompanying map, distinguished by the numbers 0 to 10. The positions of the stations supplying information as to Temperature and Rainfall, and in some cases as to Bright Sunshine also, are marked on the map by black dots, and their names are given in the following list, arranged under the districts to which they belong:—



METEOROLOGICAL DISTRICTS.

0. SCOTLAND, N.—Sumburgh Head, Stornoway, Wick, Lairg, Glencarron, Fort Augustus, Fort William.
1. SCOTLAND, E.—Nairn, Aberdeen, Braemar, Ochertyre, Leith, Marchmont.
2. ENGLAND, N.E.—Alnwick Castle, Durham, Shields, Scarborough, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry, Loughborough, Stamford (Duddington), Cheadle, Shirley, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Cranley, North Foreland,* Dungeness, Hastings, Southampton, Hurst Castle, Shaftesbury.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Glenlee, Douglas (Isle of Man).
7. ENGLAND, N.W.—Stonyhurst, Blackpool, Manchester (Prestwich), Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Llandoverly, Pembroke, Clifton, Arlington, Cullompton, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Malin Head, Londonderry, Edenfel (Omagh), Belmullet, Markree Castle, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Kilkenny, Roche's Point, Valencia, Killarney, Foynes.

There are in addition two stations in the Channel Islands, viz., Scilly (St. Mary's), and Jersey (St. Aubin's), which cannot be conveniently placed in any of the Districts. Records from additional stations which supply Sunshine only, are given on the sixth page of each Report.

WEEKLY SUMMARY.

The Summary on the first page of each Report gives for each week and district the absolute *maximum* and *minimum* temperatures observed, the averages of both the daily extremes, the daily average, and its difference from the mean of the corresponding period, as derived from observations of the 25 years 1871-95, together with the values for "Accumulated" temperature above and below 42° F.

DAILY MEAN TEMPERATURE.

The daily mean Temperature shown in the Tables is calculated from the mean between the daily maxima and minima, due regard being had for the varying relation found to subsist, from month to month, between the true mean temperature of the day derived from 24 hourly observations, and the means of the daily maxima and minima for a series of years, as recorded at Greenwich and the self-registering Observatories of the Meteorological Council.

The approximate Mean Daily Temperature for any week is found by multiplying the *difference* between the means of the seven observed maxima and minima by the proper coefficient for the month (shown in the following Table), and adding the product to the mean of the minima:—

Months.	Coefficient.
January. December.	0·520
February. November.	0·500
March. October.	0·485
April. September.	0·476
May. August.	0·470
June. July.	0·465

Example:

The mean maximum temperature for a week in December being - - - 48·1
 The mean minimum - - - - - 39·3
 The difference is - - - - - 8·8
 This difference $8·8 \times 520$ (the coefficient for December) = 4·6.
 This value when added to the mean minimum (39·3) gives 43·9, the required mean daily temperature of the week.

ACCUMULATED TEMPERATURE.

The Tables of Accumulated Temperature are designed to give persons engaged in agriculture better means of estimating the manner in which vegetation is affected by temperature than that afforded by the more usual methods of treating the readings of the thermometer. They show for each week, and for the whole period from the commencement of the year, the weekly and progressive values, respectively, of the combined amount and duration of the excess or defect of the air temperature, above or below a suitably fixed standard, or *base temperature*. The base adopted is 42° F., as being nearly equivalent to 6° C. This has been

* The observations from this station have now ceased.

considered by Continental writers on these subjects to be the critical value, the temperature above which is mainly effectual in starting and maintaining the growth, and in completing the ripening, of agricultural crops in a European climate. This base is also convenient as being 10° F. above the freezing point on the Fahrenheit scale.

The Accumulated Temperature is expressed in "Day-degrees,"—a Day-degree signifying 1° F. of excess or defect of temperature above or below 42° F. continued for 24 hours, or any other number of degrees for an inversely proportional number of hours.

When the temperature during any period remains either wholly above or below the base temperature, the difference between the base and the mean temperature gives the correct accumulated temperature. In other cases this difference gives only an approximate value for the accumulated temperature, not departing greatly from the truth—the deviation depending on the greater or less extent of the variations of the temperature above or below the base. Further, since the mean between the maximum and minimum of any day is nearly equal to the mean temperature of the day, the difference of the mean of the maximum and minimum from the base will also give, directly, an approximation to the accumulated temperature for the day.

The following rules, however, supply a still closer approximation to the true values sought, and they have been adopted for the preparation of the Tables in this Report. They may be applied to any other base temperature as well as to 42° F., with the slight modification of the numerical coefficients mentioned below.

RULES for computing, for a WEEKLY PERIOD, from the observed MAXIMA and MINIMA, the ACCUMULATED TEMPERATURE above or below 42° F.

1. Obtain the mean temperature, from the means of the seven observed maxima and minima, in the manner already described for daily values.

2. In obtaining the accumulated temperature four cases may occur, to which the following rules will apply:—

Conditions of Temperature.	To obtain the daily Accumulated Temperature.	
	Above 42° F.	Below 42° F.
If the minimum is above 42° F. or equal to 42° F. -	Subtract 42° F. from the mean.	There is none.
If the minimum is below 42° F., but the mean for the day is above 42° F.	From the difference between the mean for the day and the minimum deduct the accumulated temperature below 42° F., calculated as stated in the next column.	The required quantity is the excess of 42° F. over the minimum, multiplied by the coefficient 0.4.
If the mean for the day is below 42° F., but the maximum is above 42° F.	The required quantity is the excess of the maximum over 42° F., multiplied by the coefficient 0.4.	From the difference between the mean for the day and the minimum deduct the accumulated temperature above 42° F., calculated as stated in the preceding column.
If the maximum is below 42° F. or equal to 42° F. -	There is none.	Subtract the mean from 42° F.

In each of the above cases the result will be the *average daily* value, and must be multiplied by 7 in order to obtain the value for the whole week.

The coefficient varies with the duration of the period, and also with the base temperature.

The coefficient given above, in Rules 2 and 3, is for a weekly period, and for the base temperature 42° F. The following are its values for other base temperatures,—for 32° F., 0.4; for 52° F., 0.33; for 62° F., 0.25.

A full explanation of the principles on which these rules are based will be found in Appendix II. to the Quarterly Weather Report for 1878.

RAINFALL.

The Summary on the first page of each Report gives for each week and each District the number of rainy days, and the total fall of rain, as well as the progressive values reckoned from the commencement of the year, and the difference between these amounts and the means for the corresponding week in the 30 years 1866–95.

BRIGHT SUNSHINE.

The Summary on the first page gives for each week and each District the numbers of hours of sunshine recorded, and the percentage of that time to the whole time during which the sun is above the horizon; also the progressive values reckoned from the commencement of the year, together with the difference between them and the mean for the corresponding period in the 15 years 1881 to 1895. The number of stations has been largely increased this year, and the values have been entirely rearranged on pages two and three of the Monthly Summary.

SUPPLEMENT AND APPENDICES.

Supplement.—Consists of twelve Summaries of the results of the Observations made at the Stations included in the Daily and Weekly Weather Reports during each of the Calendar months. Each Summary is illustrated by a lithographed plate showing the distribution of Pressure, Air Temperature, and Rainfall during the month, and the prevalence of wind from various quarters.

Appendix I.—This contains (1) Summaries for each Quarter and for the whole year, of the Temperature and Rainfall records for each District, from 1866 to 1898, and (2) Tables giving for each district the monthly values for Rainfall, Accumulated Temperature (above and below 42° F.), and Bright Sunshine, as well as the progressive values for each from the commencement of the year, in continuation of the values given in Appendix I. for last year.

Appendix II. gives for the year 1898, and for each District, the weekly and progressive numbers of Rainy days, the Amounts of Rainfall, and the values for Accumulated Temperature (above and below 42° F.), and Bright Sunshine, in continuation of the values for the year 1897 printed in Appendix II. to the Weekly Weather Report for last year.

Tables showing for each degree of Latitude from 49° N. to 58° N., and for each Weekly and Monthly period, the total numbers of hours during which the Sun is above the Horizon, together with their Reciprocals, are given in the Preface to Vol. I., Second Series.

REPORTS RECEIVED TOO LATE FOR INSERTION IN THEIR PROPER PLACES, IN ADDITION TO THOSE ALREADY PUBLISHED ON THE SIXTH PAGE OF SOME OF THE WEEKLY REPORTS.

Date of Report.	Names of Stations.	Temperature (in Degrees Fahrenheit).								Rainfall.			Bright Sunshine.			
		Highest Obsds.	Lowest Obsds.	Averages for the week.			Diff. of Daily Average from the Mean for the week.	Accumulated Heat for the week (in Day Degrees).		No. of Rainy Days.	Rainfall in the Week.	Diff. from the Mean for the Week.	No. of Hours recorded.	Diff. from the Mean for the Week.	Per-centage of possible duration.	Diff. from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42.	Below 42.							
Week ending Dec. 17 ..	Churchstoke ..	58	31	52.5	41.8	47.4	+ 9.0	39	1	1	0.05	- 0.65	16.1	+ 7.6	31	+ 14
" " " 31 ..	Hereford ..	52	33	48.2	38.3	43.5	+ 5.3	26	10	6	1.15	+ 0.62	..	..	..	..
" " " " ..	Killarney ..	55	34	50.4	41.1	45.9	+ 2.8	31	3	7	3.24	?	..	..	..	..
" " " " ..	Morpeth ..	..	..	..	..	..	..	..	..	..	..	..	10.2	?	21	?
" " " " ..	Newquay ..	..	..	..	..	..	..	..	..	..	..	..	9.1	- 2.2	16	- 5

THE following is a LIST of the OBSERVERS who have furnished Information voluntarily for Publication in the WEEKLY WEATHER REPORT, 1898, together with the NAMES of their STATIONS and their ALTITUDE above the MEAN SEA LEVEL:—

Names of Stations.	Altitude above Mean Sea Level.	Names of Observers.	Remarks.	Names of Stations.	Altitude above Mean Sea Level.	Names of Observers.	Remarks.
Alnwick Castle -	Feet. 210	Humphrey J. Williams, for the Duke of Northumberland, K.G.		Lairg - - -	335	D. Macrae, B.D.	
Arlington (North Devon). -	613	W. Stewart, for Lady Chichester.		Laudale - -	14	A. Fletcher, for T. G. H. Newton, M.A., F. R. Met. Soc.	
Armagh - -	207	Staff of Observatory.		Llandoverly - -	217	J. Watkins, F. R. Met. Soc.	
Blackpool - -	31	A. J. Anderson.		Llandudno - -	79	J. Nicol, M.D., F. R. Met. Soc., and W. Little.	
Braemar - -	1,114	J. A. Aitken, J.P.		Londonderry -	93	J. Conroy, F. R. Met. Soc.	
Brighton - -	65	A. Newsholme, M.D. - - -	Sunshine only.	Manchester (Oldham Rd.) -	190	J. Niven, M.A., M.B. - - -	Sunshine only.
Clifton - -	230	D. Rintoul.		Marchmont - -	500	J. A. Wood, for Sir H. P. Campbell, Bt.	
Cheadle - -	646	J. C. Philips.		Margate - -	134	J. Stokes, F. R. Met. Soc. - -	Sunshine only.
Churchstoke -	539	P. Wright, F.C.S., F. R. Met. Soc.		Markree Castle -	131	Miss E. Reynolds, for Col. Cooper, F.R.A.S.	
Cirencester -	446	The Royal Agricultural College.		Morpeth - -	324	G. P. Berry - - - - -	Sunshine only.
Colwyn Bay -	?	R. E. Lord, M.D., B.Sc. - -	Sunshine only.	Newquay - -	200	J. Pearce - - - - -	Sunshine only.
Cranley - -	?	Rev. C. J. Allen, M.A.		Newcastle-on-Tyne -	152	W. H. Martin - - - - -	Sunshine only.
Cullompton -	202	J. Turner, F. R. Met. Soc.		Ochiltertyre - -	333	G. Croucher, F. R. Met. Soc.	
Deerness - -	169	M. Spence - - - - -	Sunshine only.	Oswaldkirk - -	510	R. Thompson - - - - -	Sunshine only.
Douglas, Isle of Man. -	137	A. W. Moore, M.A., J.P.		Plumstead - -	285	J. G. Waller, F. R. Met. Soc. -	Sunshine only.
Dublin - -	51	J. W. Moore, M.D., F. R. Met. Soc.		Plymouth - -	125	H. Victor Prigg.	
Durham - -	335	H. J. Carpenter.		Prestwich - -	294	T. R. H. Clunn, M.D., F. R. Met. Soc.	
Eastbourne -	120	R. Sheward, F. R. Met. Soc. -	Sunshine only.	Rothamsted - -	368	Sir J. B. Lawes, Bart., LL.D., F.R.S., Sir J. H. Gilbert, Ph. D., F.R.S., and T. Wilson, F. R. Met. Soc.	
Edenfel (Omagh) -	300	Col. Buchanan, F. R. Met. Soc.		Scarborough - -	157	E. W. Ellerbeck.	
Edgeworthstown	285	J. M. Wilson, J.P.		Sheffield - -	429	H. Howarth - - - - -	Sunshine only.
Edinburgh - -	282	R. C. Mossman, F. R. Met. Soc. -	Sunshine only.	Shirley (Solihull) -	460	B. Boothroyd.	
Falmouth - -	210	Staff of Observatory.		Southampton -	74	J. T. Cook, R.E., the Ordnance Survey Office.	
Fort Augustus -	75	Rev. M. Wall.		Southport - -	?	J. Baxendell, F. R. Met. Soc. -	Sunshine only.
Fort William -	37	A. Rankin, for Directors of Observatory.		Stamford (Dud-dington). -	152	F. Coventry.	
Foynes - -	108	W. Ward, for Lord Monteagle, K.P.		Stonyhurst - -	360	Staff of Observatory.	
Geldeston - -	37	E. T. Dowson, F. R. Met. Soc.		Strathpeffer Spa -	253	Tregelles Fox, M.D. - - -	Sunshine only.
Glasgow - -	184	Staff of Observatory.		Shaftesbury - -	722	Miss L. Wand.	
Glencarron - -	504	D. D. Munro, for Lord Maclaren.		Tenby - - -	?	W. T. Balmer - - - - -	Sunshine only.
Glenlee - -	230	W. Melville, for Prince Smith.		Thurcaston - -	253	Rev. T. A. Preston, M.A., F. R. Met. Soc.	Sunshine only.
Guernsey - -	222	F. E. Carey, M.D., F. R. Met. Soc.	Sunshine only.	Torquay - -	286	A. Chandler, F. R. Met. Soc. -	Sunshine only.
Hastings - -	116	H. Colborne, M.R.C.S.		Ventnor Hospital -	285	C. Lewis, M.B. - - - - -	Sunshine only.
Hereford - -	274	T. A. Chapman, M.D.		Watergate - -	375	R. Christy - - - - -	Sunshine only.
Hesley Hall, Bawtry	65	B. J. Whitaker, F. R. Met. Soc.		Westbourne - -	30	Rev. L. B. Birkett - - - -	Sunshine only.
Hillington - -	88	Rev. H. E. B. Ffolkes, M.A., F. R. Met. Soc.		Worksop - -	112	H. Mellish, J.P., F. R. Met. Soc. -	Sunshine only.
Hollesley Bay -	38	Prof. C. J. Freer Thonger, F.C.S.	Sunshine only.	York - - -	105	E. B. Collinson - - - - -	Sunshine only.
Kilkenny - -	212	H. Carlton, for the Marquis of Ormonde, K.P.					
Killarney - -	110	The Ven. Archdeacon Wynne.					

Stations marked "R" report through the Royal Meteorological Society; those marked "S" through the Scottish Meteorological Society. NOTE.—In cases where "Sunshine only" is received the altitudes quoted were those of the Recorders, not of the ground.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

VOL. XV. No. 1.]
Third Series.

WEEK ENDING SATURDAY, JANUARY 8TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95. BRIGHT SUNSHINE.—The

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 2.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	49	23	43.9	33.4	38.9	1 above	Day-deg. 5	Day-deg. 0	Day-deg. 33	Day-deg. - 9	Day-deg. 5	Day-deg. 0	Day-deg. 33	Day-deg. - 9
	1. SCOTLAND, EAST	51	23	45.0	32.7	39.1	2 above	8	+ 2	29	- 14	8	+ 2	29	- 14
	2. ENGLAND, N. E.	53	32	46.5	38.2	42.5	5 above	19	+13	11	- 28	19	+13	11	- 28
	3. ENGLAND, EAST	56	28	47.3	36.2	42.0	5 above	15	+ 8	16	- 29	15	+ 8	16	- 29
	4. MIDLAND COUNTIES	54	29	46.7	37.1	42.1	5 above	21	+13	14	- 31	21	+13	14	- 31
	5. ENGLAND, SOUTH	55	30	49.3	40.4	45.0	6 above	28	+17	4	- 33	28	+17	4	- 33
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	53	31	46.2	38.2	42.4	4 above	19	+10	11	- 20	19	+10	11	- 20
	7. ENGLAND, N.W.	53	35	47.9	40.9	44.5	5 above	22	+14	3	- 30	22	+14	3	- 30
	8. ENGLAND, S.W.	53	28	49.8	40.2	45.2	4 above	30	+16	5	- 22	30	+16	5	- 22
	9. IRELAND, NORTH	52	30	46.8	37.8	42.5	4 above	21	+10	12	- 16	21	+10	12	- 16
	10. IRELAND, SOUTH	55	30	49.4	40.7	45.2	3 above	28	+11	4	- 19	28	+11	4	- 19
	—CHANNEL ISLANDS—	54	36	52.1	44.8	48.6	4 above	46	+23	0	- 11	46	+23	0	- 11

DISTRICTS. (See p. 2.)		Rainfall.								Bright Sunshine.								
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	13	10ths of in. 0 (average)	6	+ 1	1.3	0.0	1.3	11	+ 6	23	+12	11	+ 6	23	+12	
	1. SCOTLAND, EAST	5	5	2 less	5	+ 2	0.5	- 0.2	0.5	8	+ 1	17	+ 1	8	+ 1	17	+ 1	
	2. ENGLAND, N.E.	5	7	2 more	5	+ 1	0.7	+ 0.2	0.7	12	+ 4	23	+ 8	12	+ 4	23	+ 8	
	3. ENGLAND, EAST	5	7	3 more	5	+ 1	0.7	+ 0.3	0.7	10	0	19	0	10	0	19	0	
	4. MIDLAND COUNTIES	4	6	1 more	4	+ 1	0.6	+ 0.1	0.6	12	+ 3	23	+ 5	12	+ 3	23	+ 5	
	5. ENGLAND, SOUTH	3	4	2 less	3	0	0.4	- 0.2	0.4	14	+ 3	26	+ 6	14	+ 3	26	+ 6	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	16	3 more	7	+ 3	1.6	+ 0.3	1.6	6	- 2	11	- 4	6	- 2	11	- 4	
	7. ENGLAND, N.W.	6	18	11 more	6	+ 2	1.8	+ 1.1	1.8	9	0	17	0	9	0	17	0	
	8. ENGLAND, S.W.	5	11	2 more	5	+ 1	1.1	+ 0.2	1.1	12	0	21	0	12	0	21	0	
	9. IRELAND, NORTH	6	11	3 more	6	+ 2	1.1	+ 0.3	1.1	6	- 4	12	- 7	6	- 4	12	- 7	
	10. IRELAND, SOUTH	6	17	8 more	6	+ 2	1.7	+ 0.8	1.7	5	- 7	9	- 14	5	- 7	9	- 14	
	— CHANNEL ISLANDS—	5	5	3 less	5	0	0.5	- 0.3	0.5	15	+ 2	26	+ 3	15	+ 2	26	+ 3	

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was very unsettled and mild over the Kingdom as a whole, with frequent and considerable falls of rain in all the western districts. Over the more eastern and southern counties, however, the rain was, as a rule, less frequent and heavy, and several intervals of clear, bright weather were experienced.

Temperature was above the mean, the excess ranging from 1° in Scotland N., and 2° in Scotland E., to 5° in most parts of England, and to 6° in England S. The highest of the maxima were recorded about the middle of the week, and ranged from 56° in England E., and 55° in England S. and Ireland S., to 49° in Scotland N. The lowest of the minima, which were registered on rather irregular dates, ranged from 23° in Scotland N. and E., and 28° in England E. and S.W., to 35° in England N.W., and 36° in the Channel Islands.

Rainfall exceeded the mean in all the "Grazing" districts, as well as in England N.E. and E., and the Midland Counties; the excess being very large in England N.W. and Ireland S. In Scotland E., England S., and the Channel Islands it was less than the mean value.

Bright Sunshine was somewhat in excess of the mean in most of the northern, eastern, and southern districts, but below or just equal to it in the west. The percentage of the possible duration ranged from 26 in England S. and the Channel Islands, to 12 in Ireland N., 11 in Scotland W., and 9 in Ireland S.

Barometer and Wind.—At the commencement of the period the distribution of pressure was rather complex, being anticyclonic in the north, and cyclonic in the south and south-west. By Tuesday, however, a depression, moving north-eastwards, had appeared over our north-western coasts, and this was succeeded, with but slight interruption, by other systems, moving in a similar direction, until the end of the period. The wind, after being rather variable at the beginning of the week, became South-Westerly very generally, and increased considerably in force, especially in the north and west.

II.—DATA from which the SUMMARY on page 1 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42° F.	Below 42° F.	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	48	34	45.0	35.6	40.5	+ 1.4	8	26	6	0.71	- 0.19	*	*	*
	Stornoway	47	30	45.4	33.1	39.5	+ 0.9	10	35	7	0.99	- 0.23	12.9	+ 6.8	29
	Wick	47	32	45.1	32.6	39.1	+ 1.5	9	37	4	0.22	- 0.38	*	*	*
	Lairg	47	23	42.2	30.0	36.3	+ 0.1	1	44	6	0.60	- 0.22	*	*	*
	Glencarron	47	29	42.2	34.0	38.3	+ 1.3	1	30	6	2.30	+ 0.03	*	*	*
	Fort Augustus	48	29	43.4	32.7	38.3	+ 0.2	4	35	7	1.60	+ 0.51	6.1	+ 3.0	13
	Fort William	49	32	44.3	35.7	40.2	+ 1.5	6	25	6	2.71	+ 0.56	8.3	+ 3.9	18
1. SCOTLAND, E.	Nairn	50	27	45.9	31.1	38.8	+ 1.6	11	43	4	0.33	- 0.12	*	*	*
	Aberdeen	48	31	45.1	34.7	40.0	+ 2.7	9	28	5	0.26	- 0.32	9.5	- 0.8	20
	Braemar	46	23	40.3	30.8	35.7	+ 1.5	0	44	4	0.34	- 0.36	8.2†	+ 3.6†	17†
	Ochertyre	51	28	45.3	30.1	38.0	+ 1.8	9	46	6	1.06	- 0.02	*	*	*
	Leith	51	31	48.1	34.7	41.7	+ 2.8	17	32	4	0.27	- 0.12	*	*	*
2. ENGLAND, N.E.	Marchmont	51	31	45.3	34.6	40.2	+ 4.2	9	30	5	0.42	- 0.18	8.0	- 0.4	16
	Alnwick Castle.	51	33	47.5	35.9	41.9	+ 4.5	15	27	5	0.47	- 0.06	*	*	*
	Durham	52	32	46.3	37.6	42.1	+ 5.6	19	12	5	0.83	+ 0.33	12.5	+ 2.5	25
	Shields	51	35	46.7	38.6	42.8	+ 4.7	20	10	4	0.78	+ 0.37	*	*	*
	Scarborough	51	35	46.2	40.5	43.5	+ 5.4	17	4	5	0.60	+ 0.10	15.7	?	30
3. ENGLAND, E.	York	53	32	46.6	37.9	42.4	+ 5.3	20	11	6	0.54	+ 0.12	7.8	+ 1.2	15
	Spurn Head	50	35	45.7	38.9	42.4	+ 4.4	16	9	4	0.68	+ 0.33	*	*	*
	Hillington	53	29	46.0	35.1	40.8	+ 4.6	11	29	4	1.21	+ 0.73	9.9	+ 0.2	19
	Yarmouth	53	31	47.4	37.7	42.7	+ 5.4	23	12	4	0.47	- 0.02	*	*	*
	Geldeston	56	29	47.8	35.3	41.8	+ 4.1	16	29	5	0.58	+ 0.19	14.7	+ 3.4	27
4. MIDLAND COUNTIES	Cambridge	54	30	47.7	36.4	42.3	+ 5.3	26	16	4	0.76	+ 0.42	7.8	- 2.0	14
	Rothamsted	53	28	47.5	36.4	42.2	+ 5.3	25	16	6	0.56	+ 0.02	9.3	- 0.5	17
	Bawtry (Hesley Hall)	53	31	46.1	36.9	41.7	+ 4.7	11	22	4	0.43	+ 0.03	*	*	*
	Loughborough	54	31	47.4	37.4	42.6	+ 5.4	24	13	3	0.68	+ 0.23	*	*	*
	Stamford (Duddington)	53	30	46.4	36.6	41.7	+ 5.4	12	23	4	0.74	+ 0.32	*	*	*
5. ENGLAND, S.	Cheadle	51	31	45.1	37.3	41.4	+ 5.1	9	20	5	1.00	+ 0.38	*	*	*
	Shirley (near Solihull)	53	29	45.8	35.6	40.9	+ 3.9	11	26	4	0.64	?	*	*	*
	Churchstoke	54	31	47.8	36.6	42.4	+ 5.1	25	15	4	0.28	- 0.35	17.4	+ 8.0	33
	Hereford	53	31	48.4	39.0	43.9	+ 5.9	26	8	3	0.48	+ 0.01	14.9	+ 4.2	28
	Oxford	53	31	48.4	39.0	43.9	+ 5.9	26	8	3	0.48	+ 0.01	14.9	+ 4.2	28
6. SCOTLAND, W	London	54	30	48.9	37.7	43.5	+ 4.8	29	12	3	0.44	- 0.03	7.7†	+ 2.2†	14†
	North Foreland	53	37	48.9	41.7	45.4	+ 6.7	25	1	4	0.22	?	*	*	*
	Dungeness	53	36	50.1	42.9	46.6	+ 7.5	32	0	2	0.15	- 0.40	*	*	*
	Hastings (St. Leonards)	52	37	49.7	42.4	46.2	+ 6.8	29	0	4	0.35	- 0.27	10.3	+ 5.8	35
	Southampton	55	31	50.2	39.0	44.8	+ 5.6	32	8	4	0.37	- 0.33	10.5	- 0.7	19
7. ENGLAND, N.W.	Hurst Castle	51	34	50.0	40.4	45.4	+ 5.3	31	4	3	0.44	- 0.19	*	*	*
	Shaftesbury	51	36	47.1	38.9	43.2	+ 6.6	21	9	3	0.75	+ 0.05	*	*	*
	Laudale (Loch Sunart)	50	32	45.8	36.2	41.2	+ 2.1	11	31	6	2.58	+ 0.59	*	*	*
	Glasgow	49	31	44.3	36.6	40.6	+ 2.6	6	22	7	1.05	+ 0.22	4.8	0.0	10
	Ardrossan	49	33	47.0	36.6	42.0	+ 2.1	14	15	7	0.55	- 0.28	*	*	*
8. ENGLAND, S.W.	Glenlee	50	31	45.2	36.3	40.9	+ 3.7	9	23	7	2.11	+ 0.51	*	*	*
	Gilcrux (Cumberland)	51	37	46.0	40.3	43.3	+ 5.7	16	5	7	1.52	?	5.1	?	10
	Douglas (Isle of Man)	53	39	49.1	42.9	46.1	+ 5.6	29	0	6	1.72	+ 0.72	7.0	- 3.3	13
	Stonyhurst	51	35	46.3	39.6	43.1	+ 5.9	18	6	6	3.06	+ 2.14	6.7	- 1.6	13
	Blackpool	51	35	47.3	40.1	43.8	+ 5.8	21	5	6	2.00	+ 1.38	10.6	+ 2.2	20
9. IRELAND, N.	Manchester (Prestwich)	51	35	46.4	39.3	43.0	+ 5.8	18	8	5	1.58	+ 0.87	3.5	?	7
	Liverpool Obs. (Bidston)	53	35	47.9	40.7	44.4	+ 5.3	22	4	5	1.10	+ 0.62	*	*	*
	Llandudno	53	39	49.6	42.5	46.2	+ 5.1	29	0	5	1.25	+ 0.64	13.9	+ 5.0	26
	Holyhead	52	40	49.6	43.0	46.4	+ 4.3	31	0	6	1.73	+ 0.95	*	*	*
	Llandovery	52	28	49.3	35.6	42.7	+ 4.7	32	18	5	1.97	+ 0.83	*	*	*
10. IRELAND, S.	Pembroke	51	39	49.7	43.3	46.6	+ 3.8	32	0	6	2.26	+ 1.43	11.1	- 0.2	21
	Clifton	53	34	47.3	40.3	43.9	+ 4.6	20	5	4	0.68	- 0.04	*	*	*
	Arlington (N. Devon)	52	32	48.3	37.4	43.1	+ 3.0	27	13	4	1.39	+ 0.29	*	*	*
	Cullompton	53	28	49.9	36.2	43.3	+ 4.1	33	16	5	0.60	- 0.17	10.9	+ 1.1	20
	Falmouth	53	39	51.4	44.0	47.9	+ 4.3	41	0	4	0.61	- 0.59	12.2	0.0	21
CHANNEL ISLANDS	Plymouth	53	35	51.8	41.0	46.6	+ 4.8	36	3	5	0.74	- 0.08	11.7	+ 0.8	20
	Prawle Point	52	39	50.4	43.7	47.2	+ 5.5	36	0	3	0.46	- 0.24	*	*	*
	Malin Head	49	38	47.0	39.0	43.2	+ 2.1	21	8	6	1.36	?	*	*	*
	Londonderry	51	32	46.3	37.0	41.8	+ 2.1	12	22	6	0.98	+ 0.11	*	*	*
	Edenfel (Omagh)	51	30	45.3	35.4	40.6	+ 3.2	9	27	7	1.02	+ 0.25	*	*	*
10. IRELAND, S.	Belmullet	51	34	48.0	38.1	43.3	+ 5.8	25	11	7	1.29	+ 0.09	*	*	*
	Markree Castle	52	30	46.6	36.3	41.7	+ 2.7	13	25	7	1.08	+ 0.18	5.7	- 2.5	11
	Armagh	51	34	46.8	39.1	43.1	+ 4.8	20	8	6	0.92	+ 0.25	6.9	- 2.7	13
	Donaghadee	51	34	47.7	39.6	43.8	+ 3.6	23	7	5	0.64	+ 0.03	*	*	*
	Edgeworthstown	51	34	47.7	39.6	43.8	+ 3.6	23	7	5	1.36	+ 0.73	*	*	*
10. IRELAND, S.	Dublin	55	38	50.1	42.3	46.4	+ 5.2	31	0	6	1.11	+ 0.61	8.3	- 4.8	16
	Parsonstown	53	30	48.0	38.4	43.4	+ 4.0	25	10	5	0.88	+ 0.20	3.0	- 8.0	6
	Kilkenny	53	32	48.6	38.7	43.9	+ 3.2	27	9	6	1.86	+ 1.12	*	*	*
	Roche's Point	54	39	50.1	43.1	46.7	+ 3.6	33	0	7	2.02	+ 0.84	*	*	*
	Valencia	54	35	50.1	42.1	46.3	+ 1.4	30	0	5	2.83	+ 1.41	3.2	- 9.0	6
CHANNEL ISLANDS	Killarney	55	32	49.9	39.7	45.0	+ 1.8	31	6	6	1.50	?	*	*	*
	Foynes	54	34	48.8	40.7	44.9	+ 3.8	26	4	5	1.46	?	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	45	53.1	46.7	50.0	+ 4.0	56	0	5	0.76	- 0.05	11.8	?	21
	Jersey	54	36	51.0	42.9	47.1	+ 4.8	36	0	4	0.23	- 0.50	18.0	+ 3.2	31

Stations marked M are in connection with the Royal Meteorological Society, and those marked S with the Scottish Meteorological Society.

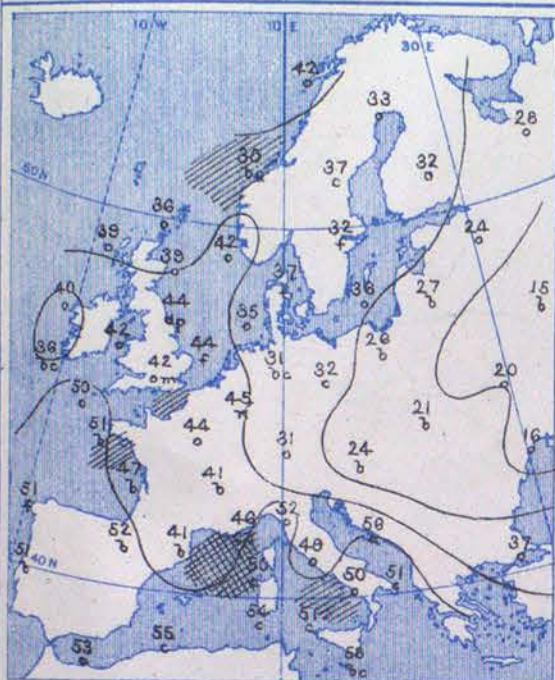
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 2nd January.

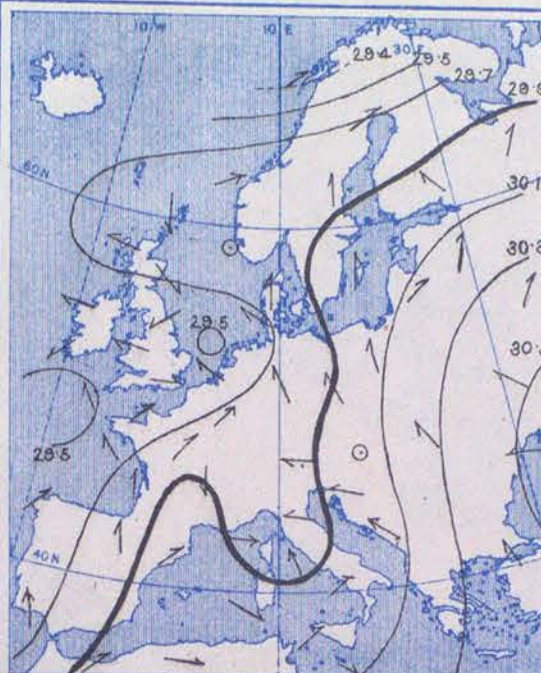
Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over Russia, fine and bright over central Europe, very variable over the southern and western countries, rainy in a great many parts of England and Ireland, as well as in the south of France, and at Brussels and Helsingfors. Much rain later over Wales, the south-west of our Islands, and Portugal. Small quantities over Scotland, but considerable falls in the west of Lapland on the one hand, and in various parts of Italy on the other.

Temperature risen over our Islands, fallen over south-eastern Europe. Morning readings highest, 58° to 50° over the southern shores of the Mediterranean, 56° at Lesina, 55° at Lisbon, 50° at Scilly and Brest. Lowest, 7° to 24° Fahr. over the greater part of Russia, 32° at Moscow and Berlin; above 40° over almost the whole of the British Islands and France, but 25° at Parsonstown. Falling over our Islands later. Highest maxima recorded were 61° to 63° in the south of Italy, 68° to 72° on the Algerian coast.

Wind was light and anticyclonic over the south-eastern countries, variable and cyclonic in the north-west, west, and south. (1) Southerly over France, South-Easterly to Easterly at our western stations, Easterly in Scotland; (2) Westerly over the south-east of England, Southerly over the Netherlands, South-Easterly over Denmark; (3) South-Westerly over the north of Scandinavia. A separate cyclonic circulation prevailing over the Mediterranean and south of France.

Barometer highest, 30.6 ins. to 30.0 ins. over the whole of south-eastern Europe, and exceeding 30.0 ins. over northern Africa; exceeding 29.7 ins. in a ridge stretching westwards from the south of Norway across the Shetlands and the north of Scotland to the Atlantic. Lowest, below 29.4 ins. over Finmark; below 29.5 ins. in a depression lying off our south-west coasts; below 29.6 ins. off the west of Portugal; and below 29.8 ins. over the south-east of France. Rising quickly over our Islands and France later, and very quickly in the north-west of Norway.

Monday, 3rd January.

Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair and quiet over the greater part of Europe, as well as over Great Britain as a whole and the north of Ireland. Fog or mist prevalent, however, in many places; rain in the north-east of England, the east of Scotland, and at Skudsmæe. Considerable rain in these latter regions later, as well as in the north of Ireland and the Hebrides, and at several stations lying to the eastward of the North Sea. Heavy dew in the south-east of England.

Temperature changing irregularly. Morning readings highest, 61° at Algiers, and above 55° on the southern side of the Mediterranean generally; 55° at Bilbao, 61° at Scilly, 48° at Holyhead, 47° at Dungeness. Lowest, (1) 11° at Kharkov, 12° at Hermanstadt, 15° at Moscow, and below the freezing point over central and northern Europe generally; 35° at Paris and Berlin, 38° in London. Rising later to 50° or more at several of our western and south-western stations, but falling fast over Great Britain at night.

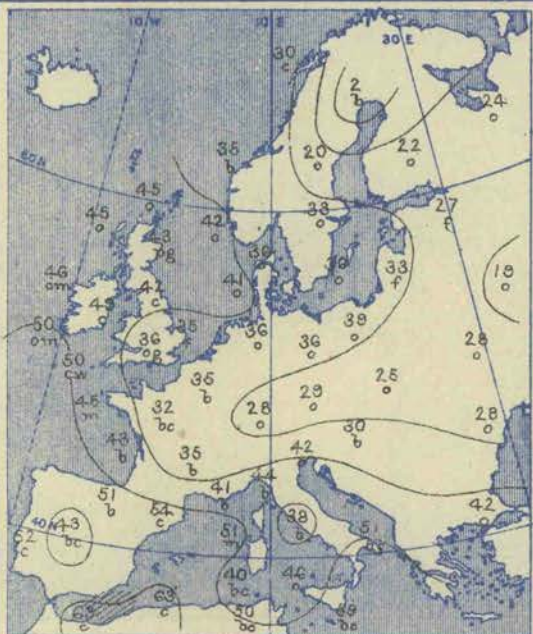
Wind (1) light and anticyclonic over almost the whole of eastern, central, and southern Europe, and very light and variable over Great Britain and the North Sea; (2) strong from South-East over Spain, moderate from between South-East and East over the Bay of Biscay and the Channel; (3) Westerly (North-Westerly to South-Westerly) over Lapland and the north of Russia. No very decided change later.

Barometer highest, 30.6 ins. and more over the south of Russia, and exceeding 30.2 ins. over the whole of eastern and central Europe, including many parts of the British Islands and Christiansund. Lowest, (1) below 29.8 ins. over Lapland and the north of Finland; (2) below 29.9 ins. in the south of Portugal. Rising decidedly over the Continent later; falling in the north of Scotland.

Tuesday, 4th January.

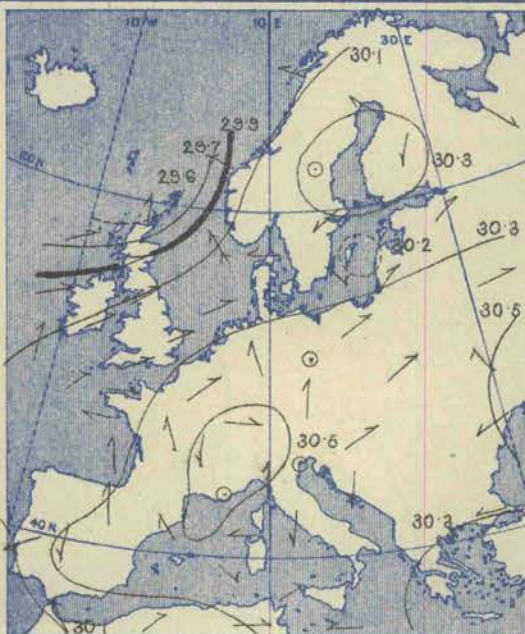
Temperature and Weather.

8 a.m.

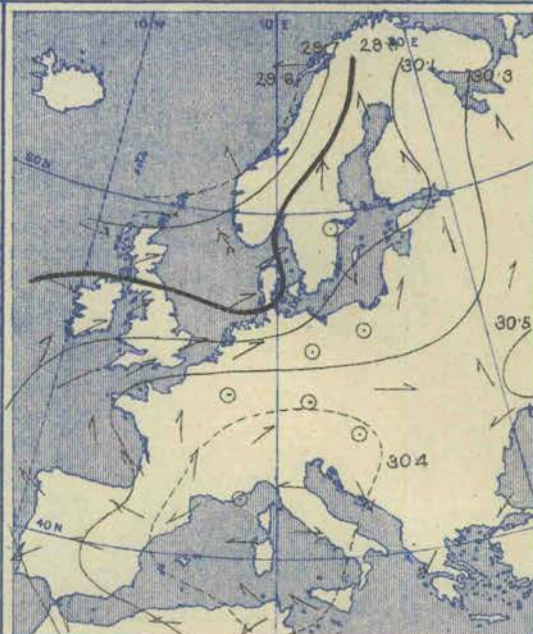


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over Russia, with snow at Helsingfors, foggy over Central Europe, fine over France; very foggy over England, dull and rainy over the northern and western parts of the British Islands. Rain falling later over almost all parts of the British Islands, and the greater part of Scandinavia; none over France.

Temperature risen over Ireland and Scotland, also over north Germany, and the Baltic Provinces. Morning readings highest, 63° at Nemours and Algiers, 59° at Malta, 52° at Lisbon, 50° at Scilly, Roche's Point and Valencia, 46° at Belmullet, 45° at Stornoway and Sumburgh Head. Lowest, -1° at Kharkov, +19° at Moscow, and below the freezing point over nearly the whole of northern, eastern, and central Europe; 32° at Paris, 36° in London. Rising later to between 54° and 59° over our western and southern districts, and touching 60° at Besançon, 63° at Cagliari and Palermo, 75° at La Calle, and 81° at Nemours.

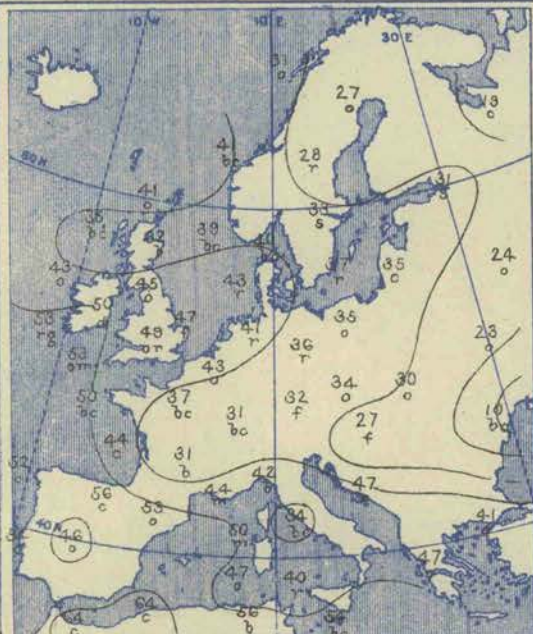
Wind light and anticyclonic over almost the whole of Continental Europe, but cyclonic over the northern half of the Baltic; South-Westerly over our Islands, light over the greater part of England, but moderate to fresh over Ireland and Scotland, backing to South in Ireland later, but veering to West over Scotland.

Barometer highest, 30.6 ins. to 30.2 ins. over Continental Europe as a whole. Lowest, below 29.6 ins. in a well-marked depression off the north of Scotland, below 30.2 ins. in another (small one) over the Baltic, and below 30.3 ins. in a third over Greece and Asia Minor. A new depression advancing towards the west of Ireland later; barometer falling fast at Valencia.

Wednesday, 5th January.

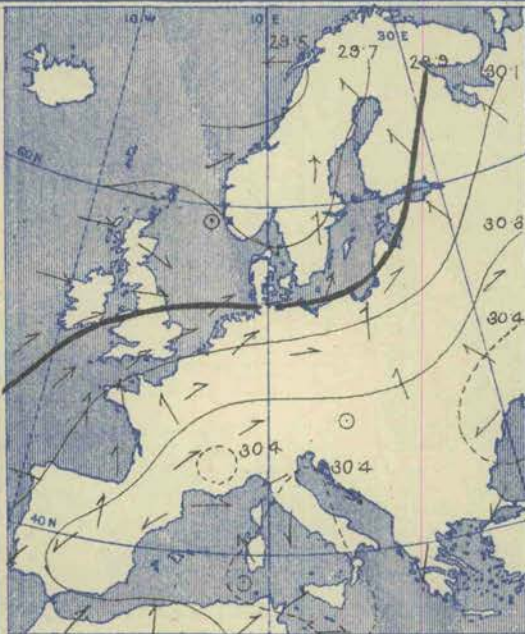
Temperature and Weather.

8 a.m.

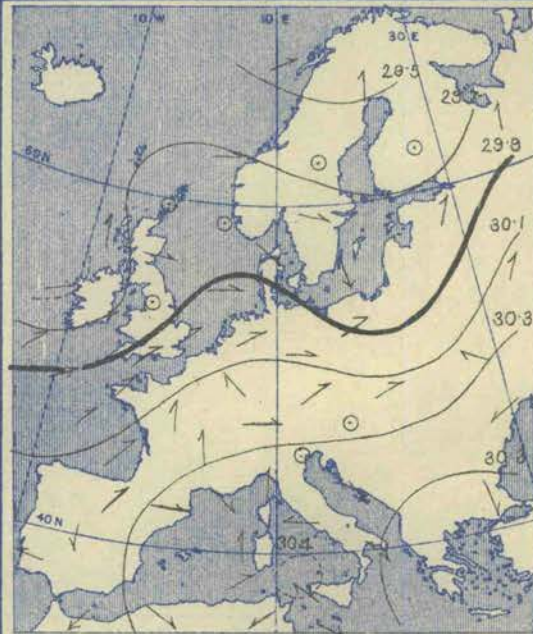


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over south-eastern Europe, fair and quiet over the western and southern countries generally, but foggy in the north of Italy, and in Austria-Hungary; fine also in Norway, Scotland, and the north of Ireland. Unsettled and gloomy over the southern half of Ireland, England, the Netherlands, Germany, and the Baltic, with rain in many places, snow at Stockholm, Hango, and St. Petersburg. Rain fallen later, very generally over the British Islands, the north of France, the North Sea, the Baltic, and north Germany, but fog clearing off.

Temperature risen fast over England and the Netherlands, fallen fast, but temporarily over Scotland. Morning readings highest, 64° at Nemours and Algiers, 63° at Bilbao, 54° at Malta and Lisbon, 53° at Scilly and Valencia. Lowest, (1) 1° at Kharkov, 3° at Odessa, 24° at Moscow, 25° at Uleaborg, 28° at Hernösand, and also at Vienna, 31° at Munich, 32° at Wiesbaden, 37° at Paris; (2) 32° at Aberdeen, 33° at Leith, 35° at Stornoway. Rising decidedly over Scotland later, and continuing high over Ireland and England.

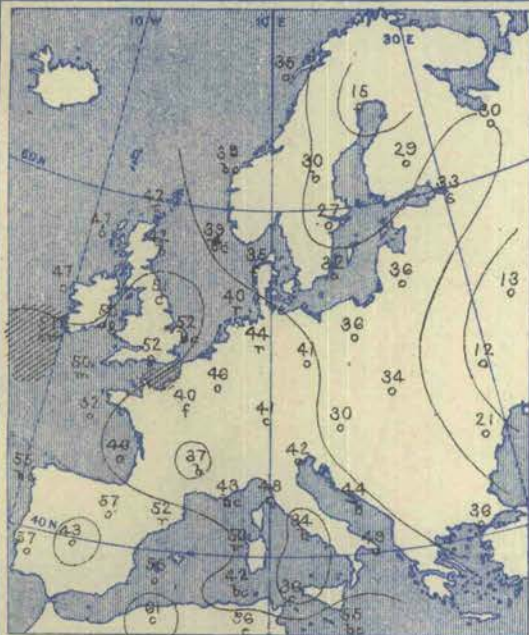
Wind light and anticyclonic over all the eastern and southern parts of Europe, moderate to strong (but cyclonic) in the west and north; chiefly Southerly over the British Isles, and the north and west of France, very variable in Scotland. Veering to South-West over England later, and the South-Westerly current tending to spread northwards.

Barometer highest, 30.5 ins. and more over the south of Russia, and 30.4 ins. to 30.0 ins. in a large system covering nearly the whole of Europe, excepting Scandinavia. Lowest, below 29.5 ins. in a depression over the north-west of Norway, and below 29.8 ins. in another over Ireland. Latter system moving northwards later.

Thursday, 6th January.

Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent; fog reported over the north of France, and also in Denmark, north Germany, and the south of Scandinavia, and rain in the Shetlands, as well as at Fano, Cuxhaven, Prague, Vienna, and Barcelona. Snow falling at St. Petersburg. Fine on the east coasts of Great Britain and the west coasts of Norway, as well as in the south-east of France. Rain falling later over nearly the whole of western Europe and northern Africa; lightning seen at Stornoway at night.

Temperature risen in most places. Morning readings highest, 61° at Algiers, 57° at Biarritz and Oran, and 56° at Bilbao; above 50° at several of the English stations, and also at Valencia (Ireland). Lowest, (1) 12° at Kiev, 13° at Moscow, and 19° at Kharkov; (2) 15° at Haparanda, and 20° at Karlstad; below the freezing point in most parts of Sweden, Russia, and Austria. Rising during day to 50° and upwards in most parts of England, Ireland, and France, to 61° at Lisbon, and to 63° at Biarritz. Frost occurring in north of Scotland at night.

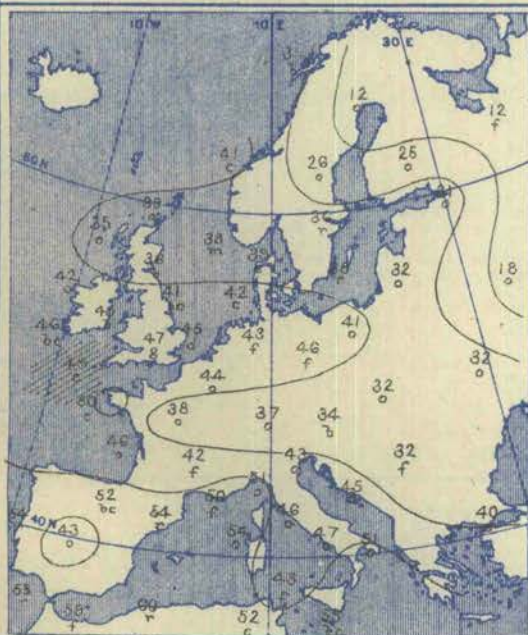
Wind moderate to fresh from the Westward or South-Westward over our Islands, the Netherlands, Germany, and the north of France; light from the South-Eastward on the eastern shores of the North Sea. North-Westerly over the south of Sweden and the northern parts of the Baltic, but Southerly over central Russia. Variable in Italy, Westerly in the south of France; Easterly or North-Easterly over the Spanish Peninsula. No important change occurring over western Europe during day.

Barometer highest, 30.3 ins. and upwards in an anticyclone lying over Italy, Algeria, and the western parts of the Mediterranean generally, as well as in another system over the south of Russia. Lowest, 29.4 ins. and less in a depression lying off the north of Scotland; 29.6 ins. and less in a large area over the extreme north of Europe. Scotch depression subsequently moving eastwards, but small secondary system approaching our south-west coasts in evening.

Friday, 7th January.

Temperature and Weather.

8 a.m.

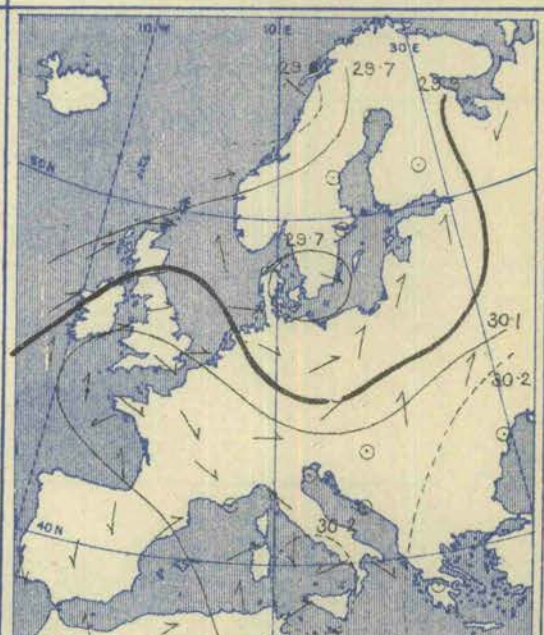


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very variable. Foggy over the greater part of central Europe and France, very fine and bright over Ireland and Scotland, gloomy and damp over the east of England, rainy at several of the Baltic stations, snow at Helsingfors; rain reported at Barcelona, and at Florence also. Considerable rain over Ireland later, as well as in Denmark, some parts of Germany, the west and south of France, and some parts of Spain; weather improving considerably over England, though hazy in places.

Temperature fallen decidedly over the British Islands, risen over the south of France, north Germany, and the south of Sweden. Morning readings highest, 60° at Algiers, 55° at Malta, 54° at Lisbon, 51° at Jersey, 49° at Scilly, 46° at Valencia (Ireland). Lowest, 12° at Haparanda and Archangel, 15° at Moscow, 21° at Kharkov, 32° at Vienna, 35° at Stornoway and Nairn, and 36° at Aberdeen. Sharp frost on the ground occurring over England at night, but temperature rising decidedly over Ireland.

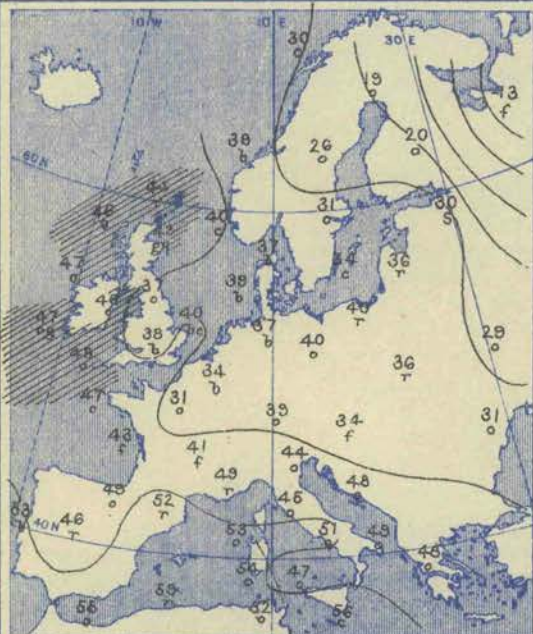
Wind light to moderate generally—anticyclonic over western, southern, and central Europe, but cyclonic Westerly over the north of our Islands, South-Westerly to Southerly over the Baltic and at Christiansund, Easterly at Bodø. Backing to the Southward over Ireland and the west of Scotland later.

Barometer highest, (1) 30.38 ins. in the Azores, 30.2 ins. and more over Italy and the Adriatic, and exceeding 30.0 ins. over the south-western half of our Islands, and nearly the whole of France, and central and south-eastern Europe. Lowest, below 29.5 ins. over the Shetlands, and off the north-west coast of Norway, and below 29.9 ins. in a "V"-shaped secondary over the southern parts of the North Sea. Falling fast later in the west of Ireland, and full spreading eastwards and northwards, rising over France.

Saturday, 8th January.

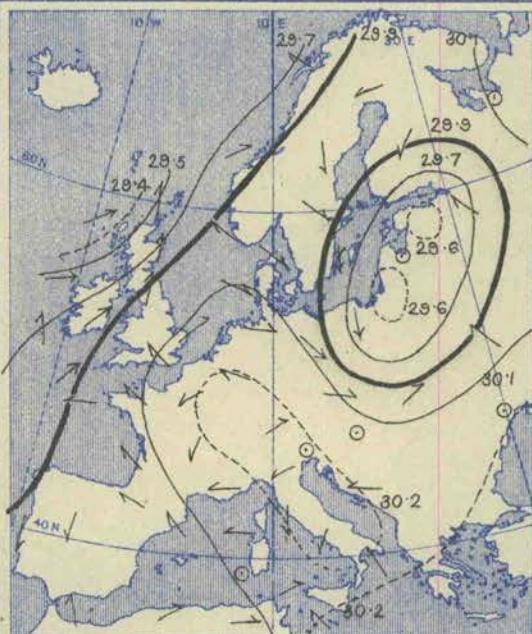
Temperature and Weather.

8 a.m.

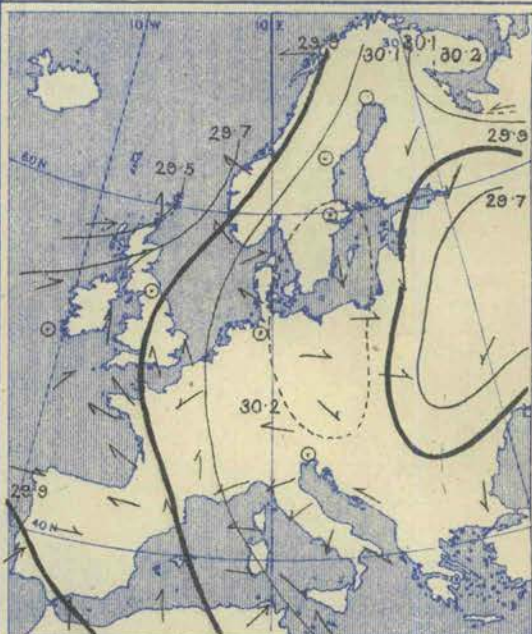


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over France and the greater part of England, as well as over Denmark and Scandinavia, dull and unsettled over Scotland, dull and rainy over Ireland; very unsettled over western Russia, Poland, and eastern Germany, with rain in many places, snow at St. Petersburg. Rain falling later both at our north-western and western stations, and in the west and south of France—heavily at Pembroke, very heavily at Perpignan and Nice.

Temperature risen quickly over Ireland and Scotland, fallen over England and France, changed fitfully elsewhere. Morning readings highest, 59° at Algiers, 53° at Malta, 53° at Lisbon, 45° at Scilly, Pembroke, and Prawle Point, 46° at Malin Head and Stornoway. Lowest, (1) -13° at Archangel, +18° at Uleaborg, 21° at Karlstad; (2) 24° at Kharkov, 29° at Kiev and Odessa; (3) 31° at the Helder, 34° over central England. Rising later to between 40° and 45° over England, to between 50° and 55° in the south of France, and to 59° at Lisbon.

Wind light and anticyclonic over the Mediterranean, France, and western and southern Germany; Southerly to South-Westerly over the British Islands, and blowing hard on our west and north-west coasts, South-Easterly in the west of Norway. A well-defined, but complex cyclonic system prevailing over western Russia, the Baltic Provinces, and north and east Germany—gales on several parts of the Baltic coasts. Falling light over Ireland, Wales, and Scotland later.

Barometer highest, 30.2 ins. and more to 30.0 ins. in an anticyclone covering the Mediterranean, France, the Netherlands, and the eastern shores of the North Sea, and exceeding 29.9 ins. in a col stretching northwards over Sweden; (2), exceeding 30.1 ins. over the north of Russia. Lowest, below 29.4 ins. in a depression off our extreme north-west coasts, and below 29.6 ins. in a complex system over the Baltic Provinces. The former system travelling northwards later.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\circ$ = a calm. In the left-hand Chart the weather is indicated as follows: — = blue sky; — = detached clouds; — = overcast; — = misty (hazy); — = foggy; — = squally; — = rain; — = hail; — = snow; — = lightning; and — = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

Throughout the greater part of this week the barometer has been highest over the south-eastern or southern countries of Europe, and lowest in the south-west or north-west, but at times (e.g. on Monday) the high-pressure area has spread north-westwards over the North Sea and the British Islands. On several occasions depressions, which have skirted our western and north-western coasts, have brought very warm weather to the British Islands and the west of France—hard frost being meanwhile prevalent over the central eastern and north-eastern countries—but on Thursday the warm Westerly current spread so far to the eastward that even over the greater part of Germany and the Baltic, the morning readings were several degrees above the freezing point, and on Friday morning the reading at Berlin was 46° and that at Neufahrwasser was 41°.

At the close of the week a depression had been developed over the Baltic provinces, in addition to one off our north-western coasts, and temperature showed a decided fall over England and France, and some tendency in the same direction over Germany.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 2.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
STRATHPEFFER [*] SPA	14.9	+ 8.1	33	+18	EASTBOURNE	20.7	+ 8.3	38	+15
EDINBURGH	7.5	+ 1.7	15	+ 1	VENTNOR HOSPITAL	14.9	?	27	?
OSWALDKIRK (Yorkshire)	10.4	+ 1.8	20	+ 1	SOUTHPORT	8.7	?	17	?
WORKSOP	6.9	- 0.6	13	- 3	COLWYN BAY	?	?	?	?
THURCASTON (Leicestershire)	10.3	+ 2.2	19	+ 4	TENBY	10.3	- 2.2	20*	- 2
MARGATE	14.4	+ 4.6	26	+ 9	NEWQUAY	11.6	+ 0.6	23	0
WESTBOURNE (Sussex)	11.7*	- 0.3	21*	- 1	TORQUAY	13.7*	0	24*	0
BRIGHTON	14.2	+ 2.7	26	+ 6	GUERNSEY	15.1*	+ 4.9	26*	+ 8

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH,
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 2.]
Third Series.

WEEK ENDING SATURDAY, JANUARY 15TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE
UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 8.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	51	32	47.6	39.3	43.6	6 above	Day-deg. 23	Day-deg. +17	Day-deg. 8	Day-deg. -35	Day-deg. 28	Day-deg. +17	Day-deg. 41	Day-deg. -44
	1. SCOTLAND, EAST	56	29	47.6	37.5	42.7	6 above	24	+17	13	-32	32	+19	42	-46
	2. ENGLAND, N.E.	55	28	46.8	37.6	42.4	5 above	21	+15	12	-30	40	+28	23	-58
	3. ENGLAND, EAST	50	27	44.6	35.6	40.3	3 above	7	+1	26	-22	22	+9	42	-51
	4. MIDLAND COUNTIES	55	28	45.0	35.1	40.2	3 above	8	0	27	-20	30*	+14	41	-51
5. ENGLAND, SOUTH	51	28	45.5	38.3	42.1	3 above	16	+6	10	-29	44	+23	14	-62	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	32	48.2	41.2	44.9	6 above	24	+15	2	-30	43	+25	13	-50
	7. ENGLAND, N.W.	51	29	46.4	38.9	42.8	4 above	19	+12	9	-25	41	+26	12	-55
	8. ENGLAND, S.W.	52	25	47.4	38.9	43.4	3 above	23	+10	9	-19	53	+26	14	-41
	9. IRELAND, NORTH	52	30	48.1	40.6	44.5	6 above	23	+11	4	-25	44	+21	16	-41
	10. IRELAND, SOUTH	55	30	50.0	41.4	45.9	4 above	30	+12	2	-21	58	+23	6	-40
	—CHANNEL ISLANDS—	54	32	48.8	40.6	44.9	1 above	26	+5	4	-9	72	+28	4	-20

DISTRICTS. (See p. 8.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 12	10ths of in. 0 (average)	12	+2	Ins. 2.5	-0.1	6	+1	13	+2	17	+8	18	+8
	1. SCOTLAND, EAST	2	1	6 less	7	0	0.6	-0.7	3	-4	6	-9	11	-4	12	-3
	2. ENGLAND, N.E.	0	—	4 less	5	-3	0.7	-0.2	3	-6	6	-11	15	-5	11	-5
	3. ENGLAND, EAST	1	less than ½	4 less	6	-2	0.7	-0.2	4	-6	8	-11	14	-6	13	-6
	4. MIDLAND COUNTIES	1	less than ½	5 less	5	-2	0.6	-0.4	6	-4	12	-8	18	-1	17	-1
5. ENGLAND, SOUTH	1	less than ½	6 less	4	-3	0.4	-0.8	4	-7	8	-12	18	-4	16	-4	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	4	8 less	11	+3	2.0	-0.5	3	-3	6	-8	9	-5	10	-5
	7. ENGLAND, N.W.	3	2	5 less	9	+2	2.0	+0.6	4	-4	7	-7	13	-2	14	-2
	8. ENGLAND, S.W.	2	1	8 less	7	-1	1.2	-0.6	13	+1	22	+2	25	+2	22	+1
	9. IRELAND, NORTH	3	2	6 less	9	0	1.3	-0.3	6	-4	12	-6	12	-7	12	-6
	10. IRELAND, SOUTH	1	1	9 less	7	-1	1.8	0.0	12	0	22	0	17	-7	16	-7
	— CHANNEL ISLANDS—	2	1	7 less	7	-2	0.6	-0.9	20	+8	34	+13	35	+12	32	+10

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period differed considerably in the various parts of the Kingdom. In all the eastern and southern districts it was very dry, but gloomy, and frequently foggy or misty; in most of the western districts it was very fair generally, although slight falls of rain were occasionally experienced; in the extreme north-west it was rainy and unsettled.

Temperature was above the mean, the excess ranging from 1° in the Channel Islands, to 3° over eastern, central, southern, and south-western England, and to as much as 6° in Ireland N. and over Scotland. The highest of the maxima occurred during the middle of the week, and ranged from 56° in Scotland E., to 50° in England E. The lowest of the minima were registered, as a whole, during the earlier half of the period, and ranged from 25° in England S.W., and 27° in England E., to 32° in Scotland N. and W. and the Channel Islands.

Rainfall just equalled the mean in Scotland N., but was much less elsewhere. In all the eastern and central parts of Great Britain the fall was scarcely appreciable.

Bright Sunshine was deficient in most parts of the Kingdom, but exceeded the mean in some of the western districts, as well as in Scotland N. on the one hand, and the Channel Islands on the other. The percentage of the possible duration ranged from 34 in the Channel Islands, and from 22 in Ireland S. and the Channel Islands, to 7 in England N.W., 6 in Scotland E. and W., and England N.E. The amount recorded at Jersey on Thursday was as large as 7.7 hours, which is equal to 90 per cent. of the possible duration for that day, and that for the same day at Scilly was not much less.

Barometer and Wind.—The distribution of pressure during this period was anticyclonic, the only depressions observed in our immediate neighbourhood being large systems passing at some distance to the north-westward and northward of our Islands, and moving north-eastward to Scandinavia, thus affecting our north-western and northern coasts only. The prevailing winds were consequently South-Western and moderate to light in force, but by the end of the week they had shifted to the Eastward in all the more southern districts.

II.—DATA from which the SUMMARY on page 7 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42° F.	Below 42° F.	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	50	38	47.4	41.6	44.6	+ 5.6	20	1	7	1.03	+ 0.13	*	*	*
	Stornoway	51	36	48.6	38.1	43.6	+ 5.2	28	11	7	1.00	- 0.20	9.3	+ 3.5	+ 6
	Wick	50	36	47.4	38.7	43.2	+ 5.8	22	9	4	0.20	- 0.35	*	*	*
	Laing	50	32	47.5	36.2	42.1	+ 5.9	25	16	5	0.38	- 0.42	*	*	*
	Glencarron	49	37	46.8	41.6	44.3	+ 7.3	18	1	6	2.27	- 0.01	*	*	*
	Fort Augustus	51	34	48.0	38.0	43.2	+ 5.0	25	11	6	1.19	+ 0.11	3.9	+ 1.1	+ 1
1. SCOTLAND, E.	Fort William	50	38	47.6	41.2	44.5	+ 6.1	21	2	6	2.63	+ 0.46	1.3	- 3.5	- 8
	Nairn	56	35	50.3	39.0	44.9	+ 7.8	33	8	2	0.07	- 0.39	*	*	*
	Aberdeen	53	30	47.3	36.9	42.3	+ 5.0	24	14	2	0.07	- 0.47	3.5	- 7.5	- 15
	Braemar	50	30	45.5	34.8	40.4	+ 6.2	10	29	2	0.12	- 0.60	5.5†	+ 1.7†	+ 3†
	Ochertyre	51	31	47.4	37.9	42.8	+ 6.6	23	11	3	0.10	- 1.00	*	*	*
	Leith	52	34	49.1	40.3	44.9	+ 6.1	27	5	0	—	- 0.38	*	*	*
2. ENGLAND, N.E.	Marchmont	49	29	45.7	36.1	41.1	+ 5.1	10	25	1	0.01	- 0.58	2.3	- 6.3	- 13
	Alnwick Castle	52	33	49.2	37.7	43.7	+ 6.5	30	12	0	—	- 0.50	*	*	*
	Durham	50	28	46.9	36.7	42.0	+ 5.6	14	15	0	1.01	- 0.46	3.3	- 6.5	- 12
	Shields	52	34	48.4	37.9	43.4	+ 5.3	27	11	0	—	- 0.40	*	*	*
	Scarborough	55	33	45.5	36.8	41.3	+ 3.2	10	22	0	—	- 0.46	5.4	?	?
	York	52	30	46.0	36.6	41.5	+ 4.5	11	23	0	—	- 0.40	0.3	- 0.9	- 10
3. ENGLAND, E.	Spurn Head	49	35	45.0	39.6	42.4	+ 4.6	13	7	0	—	- 0.31	*	*	*
	Hillington	50	31	44.5	35.6	40.2	+ 4.0	7	25	1	0.02	- 0.43	4.3	- 5.2	- 10
	Yarmouth	48	30	43.7	36.4	40.2	+ 3.1	5	22	2	0.03	- 0.43	*	*	*
	Geldeston	50	29	45.2	35.4	40.5	+ 2.8	9	27	2	0.03	- 0.32	1.6	- 9.4	- 17
	Cambridge	50	30	45.7	35.1	40.6	+ 3.7	10	28	0	—	- 0.32	5.3	- 4.8	- 10
	Rothamsted	48	27	43.8	35.7	39.9	+ 3.3	5	24	1	0.01	- 0.54	4.8	- 5.0	- 9
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	29	45.7	32.7	39.5	+ 2.6	10	37	1	0.01	- 0.38	*	*	*
	Loughborough	54	29	45.4	35.1	40.5	+ 3.5	10	28	2	0.02	- 0.41	*	*	*
	Stamford (Duddington)	51	30	44.4	35.1	39.9	+ 3.7	7	27	0	0.01†	- 0.40	*	*	*
	Cheadle	53	31	44.6	36.8	40.9	+ 4.7	7	21	1	0.01	- 0.59	*	*	*
	Shirley (near Solihull)	53	28	44.3	34.3	39.5	+ 2.5	6	30	1	0.01	?	*	*	*
	Churchstoke	55	28	45.4	34.5	40.2	+ 3.0	10	30	1	0.04	- 0.58	11.9	+ 2.1	+ 3
5. ENGLAND, S.	Hereford	54	28	46.0	35.1	40.8	+ 2.8	11	29	?	?	?	*	*	*
	Cirencester	48	29	44.4	34.7	39.7	+ 2.7	7	28	0	—	- 0.66	5.9	- 5.2	- 9
	Oxford	50	30	44.4	37.6	41.1	+ 3.1	7	18	0	—	- 0.47	1.9	- 8.3	- 16
	London	49	29	44.7	37.7	41.3	+ 2.7	8	18	0	—	- 0.45	1.9†	- 3.5†	- 6†
	North Foreland	48	33	45.0	38.3	41.8	+ 3.2	8	16	1	0.01	?	*	*	*
	Dungeness	49	28	45.9	38.0	42.1	+ 3.1	18	11	1	0.01	- 0.52	*	*	*
6. SCOTLAND, W.	Hastings (St. Leonards)	48	32	45.8	38.4	42.3	+ 3.2	17	10	1	0.02	- 0.59	5.2	- 8.2	- 15
	Southampton	51	30	46.8	37.8	42.5	+ 3.3	21	12	0	—	- 0.70	4.8	- 6.3	- 12
	Hurst Castle	50	32	47.0	40.0	43.6	+ 3.7	20	6	0	—	- 0.63	*	*	*
	Shaftesbury	48	34	43.6	38.2	41.0	+ 4.3	4	15	2	0.07	- 0.63	*	*	*
	Laudale (Loch Sunart)	54	38	49.9	42.3	46.3	+ 7.2	30	0	7	1.44	- 0.51	*	*	*
	Glasgow	50	39	47.5	41.1	44.4	+ 6.4	21	3	4	0.10	- 0.74	3.6	- 0.9	- 2
7. ENGLAND, N.W.	Ardrossan	50	42	48.1	44.6	46.4	+ 6.6	31	0	2	0.04	- 0.81	*	*	*
	Glenlee	51	33	47.8	36.1	42.2	+ 5.2	26	17	4	0.31	- 1.33	*	*	*
	Gilcrux (Cumberland)	50	37	46.8	41.3	44.2	+ 6.7	18	2	5	0.53	?	1.5	?	?
	Douglas (Isle of Man)	51	32	48.9	42.0	45.6	+ 5.3	25	0	3	0.06	- 0.92	3.9	- 6.4	- 13
	Stonyhurst	49	32	45.1	38.0	41.7	+ 4.5	9	17	4	0.56	- 0.34	0.9	- 7.1	- 13
	Blackpool	50	29	46.5	35.5	41.2	+ 3.4	13	27	4	0.09	- 0.53	1.7	- 6.7	- 11
8. ENGLAND, S.W.	Manchester (Prestwich)	51	34	45.1	38.2	41.8	+ 4.6	9	17	4	0.10	- 0.60	0.1	?	?
	Liverpool Obsy. (Bidston)	51	34	46.6	39.3	43.1	+ 4.1	19	8	1	0.09	- 0.37	*	*	*
	Llandudno	51	33	47.1	39.9	43.6	+ 2.6	20	6	0	—	- 0.60	11.3	+ 2.2	+ 4
	Holyhead	51	39	47.9	42.4	45.3	+ 3.3	23	0	3	0.12	- 0.62	*	*	*
	Llandoverly	52	25	45.9	31.9	39.2	+ 1.5	11	40	5	0.20	- 0.94	*	*	*
	Pembroke	52	39	47.7	42.7	45.3	+ 3.0	23	0	2	0.08	- 0.74	11.9	+ 0.2	+ 2
9. IRELAND, N.	Clifton	50	32	46.2	38.9	42.7	+ 3.5	18	9	1	0.01	- 0.72	*	*	*
	Arlington (N. Devon)	50	30	46.4	35.9	41.4	+ 1.4	12	26	2	0.13	- 0.89	*	*	*
	Cullompton	51	30	47.1	37.3	42.4	+ 3.1	23	13	1	0.01	- 0.69	8.7	- 0.7	- 2
	Falmouth	51	39	49.1	43.6	46.5	+ 3.3	32	0	2	0.03	- 1.16	19.4	+ 7.2	+ 12
	Plymouth	51	35	48.3	40.6	44.6	+ 3.1	24	4	2	0.03	- 0.82	15.8	+ 5.0	+ 8
	Prawle Point	52	36	48.6	40.6	44.8	+ 3.5	25	4	0	—	- 0.67	*	*	*
10. IRELAND, S.	Malin Head	50	41	47.4	43.3	45.4	+ 4.3	24	0	3	0.24	?	*	*	*
	Londonderry	52	35	48.2	40.9	44.7	+ 5.0	24	3	3	0.23	- 0.65	*	*	*
	Edenfel (Omagh)	50	33	46.6	39.7	43.3	+ 6.0	19	6	4	0.29	- 0.49	*	*	*
	Belmullet	52	40	49.7	43.9	46.9	+ 9.5	34	0	6	0.46	- 0.74	*	*	*
	Markree Castle	52	30	48.2	39.3	43.9	+ 4.9	25	8	3	0.11	- 0.78	4.7	- 4.1	- 9
	Armagh	52	34	48.4	40.1	44.4	+ 6.1	25	5	2	0.05	- 0.62	7.7	- 1.8	- 3
CHANNEL ISLANDS	Donaghadee	51	36	48.4	40.3	44.5	+ 4.4	25	5	1	0.01	- 0.61	*	*	*
	Edgeworthstown	51	30	47.5	37.4	42.7	+ 4.5	24	13	1	0.06	- 0.56	*	*	*
	Dublin	54	37	49.9	41.7	46.0	+ 4.9	29	1	0	—	- 0.49	14.1	+ 1.1	+ 2
	Parsonstown	53	32	49.0	39.1	44.3	+ 4.9	28	8	1	0.03	- 0.65	13.2	+ 2.2	+ 3
	Kilkenny	53	30	48.7	39.4	44.2	+ 3.4	26	7	1	0.02	- 0.73	*	*	*
	Roche's Point	54	38	50.9	43.9	47.5	+ 4.4	39	0	2	0.15	- 1.03	*	*	*
CHANNEL ISLANDS	Valencia	54	41	50.7	44.9	47.9	+ 3.1	41	0	4	0.16	- 1.27	9.5	- 2.9	- 5
	Killarney	55	31	50.6	40.4	45.7	+ 2.5	33	4	0	—	?	*	*	*
	Foynes	55	32	50.4	40.5	45.7	+ 4.7	32	4	0	—	?	*	*	*
	Scilly (St. Mary's)	54	42	51.7	45.0	48.5	+ 2.8	46	0	2	0.03	- 0.77	18.3	?	?
	Jersey	52	32	45.9	36.1	41.2	- 0.9	11	25	2	0.09	- 0.63	20.0	+ 5.0	+ 8

Stations marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

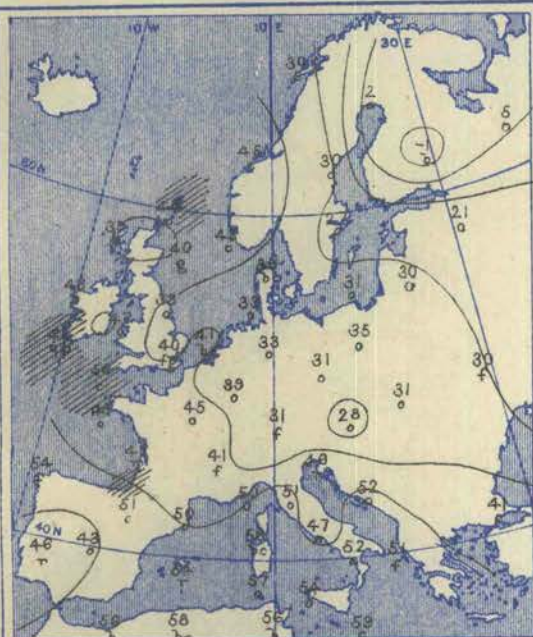
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page. ‡ Fog or dew.

Sunday, 9th January.

Temperature and Weather.

8 a.m.

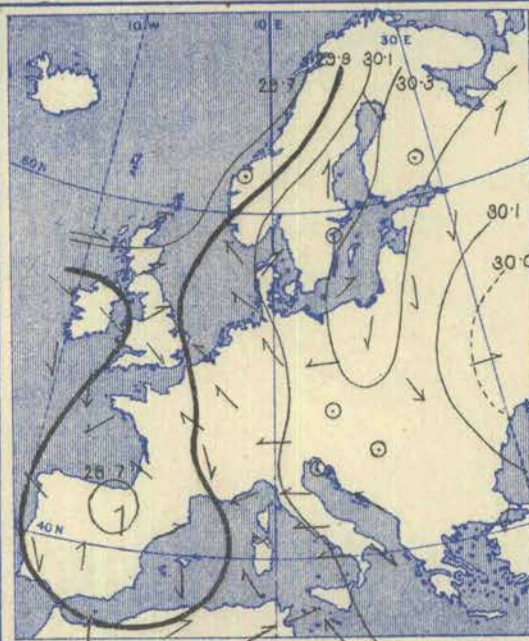


Weather in morning dull in most places, with fog at many of the English, French and German stations. Rain falling in Wales and the Channel Islands, and also at Toulon and Lisbon, and snow at Bodö. Thunderstorm reported at Oran. Fine in many parts of Ireland, but showery in places; fine also over Denmark and Finland. Sky clearing later in the north of our Islands, but slight rain falling in many parts of Ireland, England, and the Continent, and larger quantities in the extreme south of France.

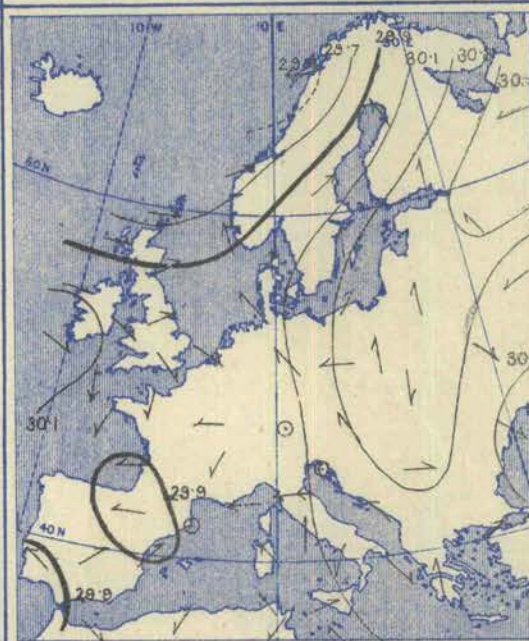
Temperature risen in Norway and also in France and Italy but fallen in most other countries. Morning readings highest, 56° at Malta, 58° at Sanguinaire and Algiers, and 57° at Cagliari; above 50° at most of the Mediterranean stations. Lowest, -1° Fahr. at Kuopio, +2° at Haparanda and Uleaborg, and 5° at Archangel; below the freezing point in most parts of Sweden, Russia, Germany, and Austria and very little above it in the central parts of England and Ireland. Daily maxima below 45° in most parts of Great Britain but thermometer touching 51° at Scilly; exceeding 55° over France and southern Europe generally, and exceeding 60° at some of the Spanish and Mediterranean stations.

Barometer and Wind.

8 a.m.



6 p.m.



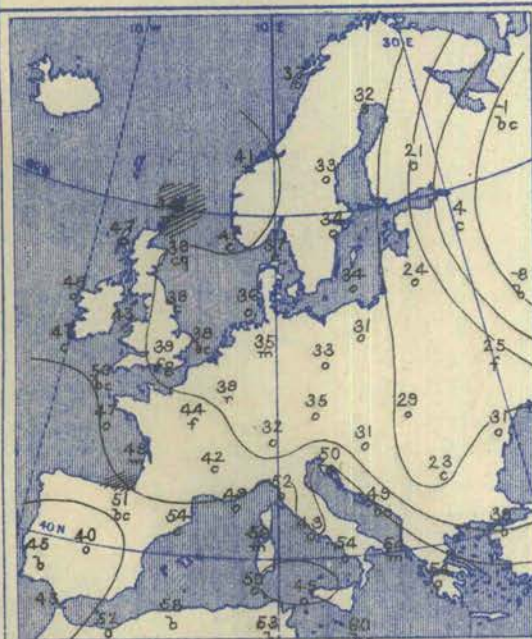
Wind light to moderate from the South-Westward or Westward over the northern parts of our Islands but Northerly on our southern coasts. Southerly in Sweden; South-Easterly or Easterly over Norway, Denmark, Germany, and the Netherlands; rather variable, but chiefly Easterly over France and Italy; variable in Spain. Northerly over the western parts of Russia; calm in Austria. Subsequently veering to the North-Westward at some of our own northern stations; no important change occurring elsewhere.

Barometer highest, 30.3 ins. and upwards in a long band stretching from Lapland and the White Sea across Finland, the Baltic, and eastern Germany; 30.0 ins. and upwards in an anticyclone spreading over Ireland from the westward. Lowest, 29.7 ins. and less in a large shallow area lying to the northward of our Islands and also in a small depression over the north-east of Spain and the extreme south-west of France. Western anticyclone subsequently spreading eastwards; depression over Spain partially filling up.

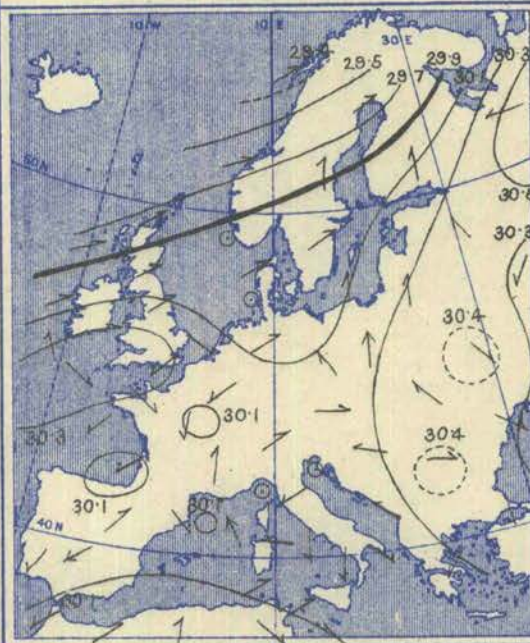
Monday, 10th January.

Temperature and Weather.

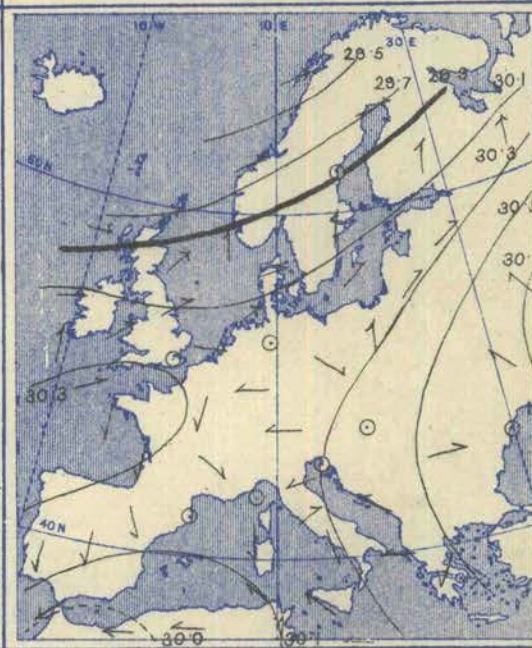
8 a.m.



8 a.m.



6 p.m.



Weather in morning fair over the greater part of our Islands and France, but foggy over the eastern and central parts of England, and showery on our extreme north-west coasts. Cloudy or dull in most of the Continental countries, with fog over the northern and central parts of France, and rain at Christiansund, Brussels and Athens. A little rain falling later at many of our own western and northern stations, and sleet at Jersey. Larger quantities of rain reported in many isolated parts of the Continent.

Temperature changed very irregularly. Morning readings highest, 60° at Malta, 58° at Algiers, and 56° at Sanguinaire; above 50° at most of the Mediterranean stations. Lowest, -8° Fahr. at Moscow, -1° at Archangel, +4° at St. Petersburg, and 21° at Kuopio, below the freezing point in most parts of Russia and Austria, and also in some parts of central England. Remaining below 45° all day at most of our eastern and central stations, but exceeding 50° on our south-west coasts, as well as in the west and south of France. Frost occurring over the central and southern parts of England at night.

Wind Southerly or South-Westerly over all the more northern parts of our Islands and the Continent, light to moderate in force generally, but fresh or strong at some of the Scandinavian and Baltic stations. Light from the Northward (North-West to North-East) over the south of England, the Netherlands, and the northern parts of France, variable in the south of France, Northerly or North-Westerly in Italy, North-Easterly over the Spanish Peninsula. No important change occurring during day.

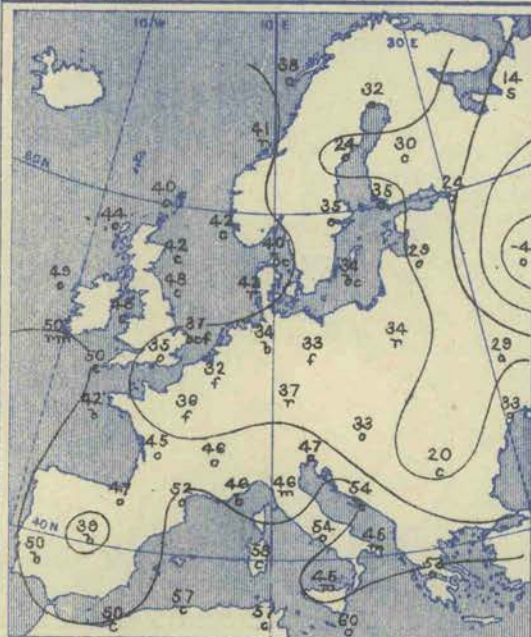
Barometer highest, 30.5 ins. and upwards in the extreme north of Russia, 30.2 ins. and upwards in an anticyclone lying over the eastern parts of the Continent generally, and also in another system over the southern parts of England and Ireland. Lowest, 29.4 ins. and less in a depression off the north-west of Norway; gradients rather steep over the northern parts of our Islands and the Continent. Anticyclone over our Islands subsequently increasing both in size and height, and barometer rising in most parts of western Europe.

III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 11th January.

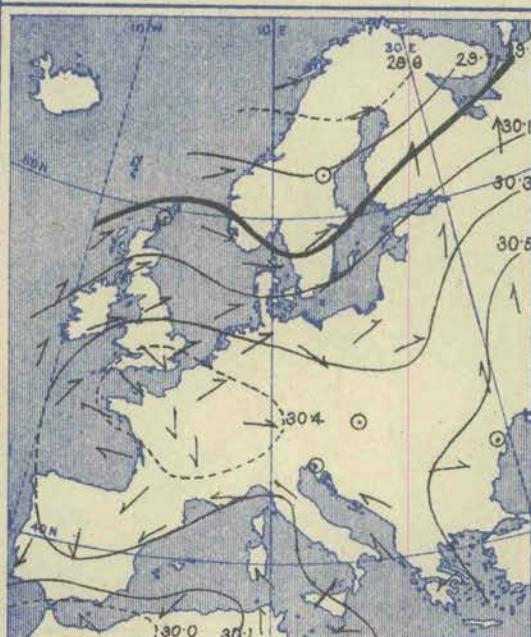
Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull generally, with fog or mist in several places, and rain in the south of Ireland, as well as over Poland and south Germany, and at Christiansund and Fanö. Fine at some stations in the south of Scandinavia, as well as in some parts of Spain and the south of France. A little rain falling later in the west of our Islands generally, and larger quantities in the Shetlands and Hebrides, as well as in some parts of Scandinavia. Snow falling at St. Petersburg and Moscow.

Temperature risen in most countries, but fallen in many parts of France, Italy, and Greece. Morning readings highest, 60° at San Fernando and Malta, 58° at Cagliari; above 50° at the Mediterranean stations generally, and just touching that point at Valencia (Ireland) and Scilly. Lowest, -4° Fahr. at Moscow, +14° at Archangel, 18° at Kharkov, and 20° at Hermanstadt, below the freezing point in most parts of eastern Europe, and very little above it in the Channel Islands. Rising during day to 50° and upwards in the west and north of our Islands generally; exceeding 55° in many parts of southern Europe.

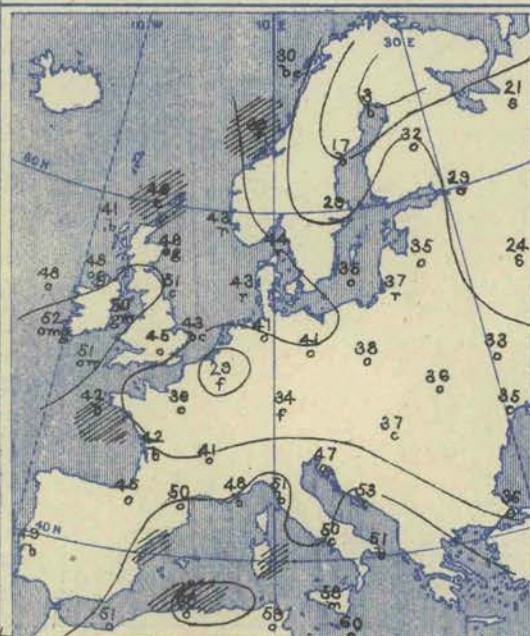
Wind South-Westerly over our Islands and the northern parts of the Continent generally, light or moderate in force in most places, but strong at Bodö and Haparanda; calm or variable over Austria and the south of Russia. Light from between East and North in France, fresh from the Northward or North-Eastward over the Spanish Peninsula, variable in Italy. No important change occurring during day.

Barometer highest, 30.6 ins. and upwards over the Black Sea and the south of Russia; 30.4 ins. and upwards over France, western Germany, and the south of England; 30.2 ins. and upwards in an anticyclone covering all but the northern parts of our Islands and the Continent. Lowest, 29.6 ins. and less over the north of Scandinavia, 30.0 ins. and less over Morocco. Large but somewhat shallow depression appearing later to the north-westward of Scotland.

Wednesday, 12th January.

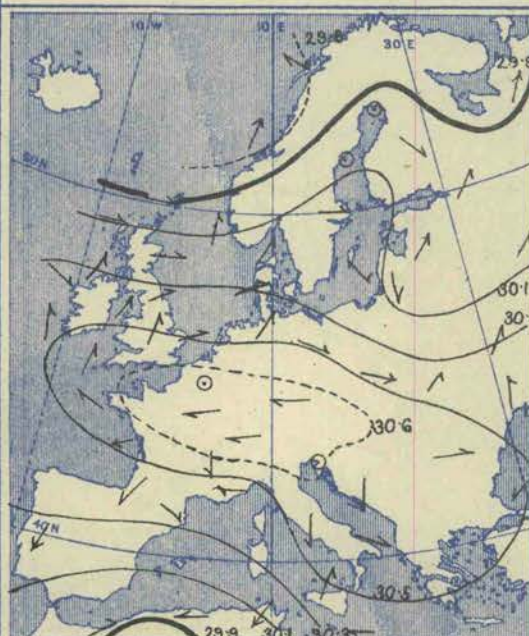
Temperature and Weather.

8 a.m.

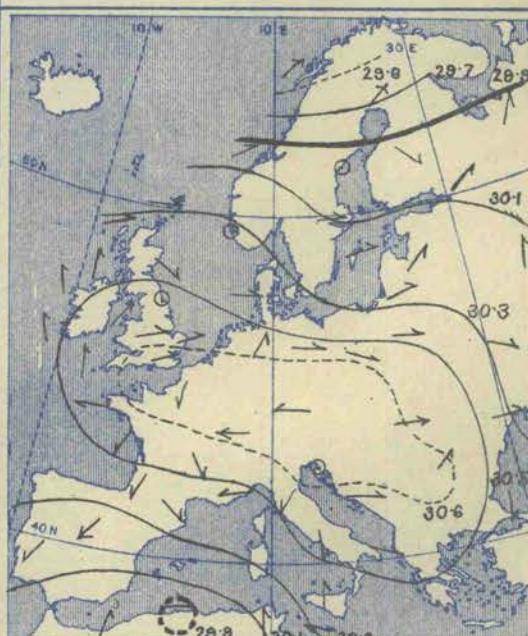


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with rain in Denmark and the west of Norway, and snow at Archangel and Moscow; fog reported at several stations in the more central parts of Europe. Fine on the north and east coasts of Great Britain, as well as in Sweden, Italy, and the south of Spain. A little rain falling later at some of our own western and extreme northern stations, as well as in Scandinavia, and a considerable amount at Perpignan and Barcelona.

Temperature risen over our Islands, as well as in Denmark, north Germany, Austria, and Russia, fallen elsewhere. Morning readings highest, 63° at La Calle, 60° at Malta and Algiers, and 59° at Cagliari and Tunis; above 50° at the Mediterranean stations generally, as well as on some parts of our own north-east and south-west coasts. Lowest, 3° at Haparanda, 17° at Hernösand, and 21° at Uleaborg and Archangel; below the freezing point over Sweden and Russia generally, and also over Belgium and western Germany. Rising during day to 50° and upwards in most parts of the United Kingdom and also in the west and south of France, and exceeding 55° in Spain and the south of Italy.

Wind South-Westerly or Westerly over north-western Europe as a whole; light or moderate in force generally, but blowing a moderate gale at Christiansund. Calm in north of Sweden, North-Westerly or Westerly over the Baltic, eastern Germany, and Austria, South-Westerly or Southerly in Russia. Light to fresh from the Eastward or North-Eastward over France and the Spanish Peninsula, Northerly over Italy and the Adriatic. No important change occurring over western Europe during day.

Barometer highest, 30.6 ins. and upwards over south Germany, Switzerland, and the northern and central parts of France; 30.3 ins. and upwards in an anticyclone covering all but the northern and extreme south-western parts of Europe. Lowest, 29.8 ins. and less in a large but somewhat shallow depression lying off the west of Norway; 30.0 ins. and less over Algeria. Depression off Norwegian coasts subsequently moving north-eastwards, and barometer rising at all but the French stations.

Thursday, 13th January.

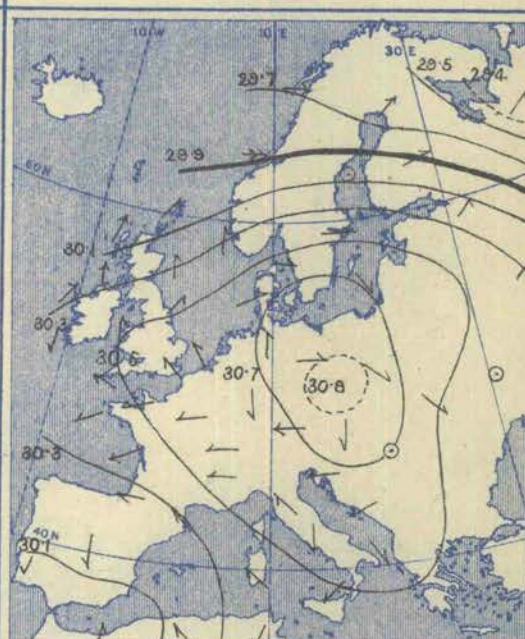
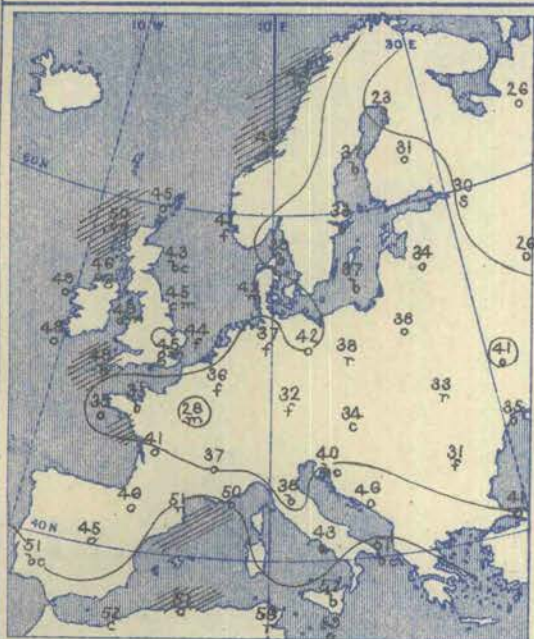
Temperature and Weather.

8 a.m.

Barometer and Wind.

9 a.m.

6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with fog or mist in many parts of England, France, and central Europe; rain falling at Bodø, and also at Perpignan, and snow at St. Petersburg. Fine over the western parts of the English Channel, as well as in the north-eastern parts of Great Britain, in Sweden, and in Italy. Rain falling later in the extreme north and north-west of our Islands and the west of Norway, and large quantities in the extreme south of France—as much as 2.2 ins. at Perpignan. Temperature risen in the extreme north of our Islands, and also in Scandinavia, Russia, Spain, and the south of France, but fallen elsewhere. Morning readings highest, 59° at Malta and Tunis, 68° at La Calle, and 57° at Palermo and Algiers; above 50° at the Mediterranean stations generally, and just touching it in several parts of Ireland and Scotland. Lowest, (1) 23° at Haparanda, and 26° at Archangel and Moscow; (2) 28° at Paris, and 32° at Munich. Rising during day to 50° and upwards at many of our own western and northern stations, and to 56° at Nairn; exceeding 50° also in the south of France, but remaining below 40° in the central parts of that country.

Wind light to moderate from the Southward or South-Westward over the greater part of the United Kingdom, and strong to a gale from the South-Westward or Westward in the west of Norway. North-Westerly over Russia, the Baltic, eastern Germany, Austria, and the Adriatic. Light to fresh from the Eastward over the English Channel and France; moderate to fresh from the North-Eastward or Northward in Spain; variable in Italy. Subsequently increasing to a moderate or fresh gale from the South-Westward in the north of Scotland; no important change occurring elsewhere.

Barometer highest, 30.7 ins. and upwards over the central and southern parts of Germany; 30.5 ins. and upwards in an anticyclone covering all the more central and south-eastern parts of the Continent, and extending westward over the North Sea, England, and the east of Ireland. Lowest, 29.6 ins. and less in a rather deep depression off the north-west of Norway; 30.0 ins. and less in a shallow disturbance over Morocco. Norwegian depression subsequently moving away to the north-eastward, but new disturbance skirting our own extreme north-west.

Friday, 14th January.

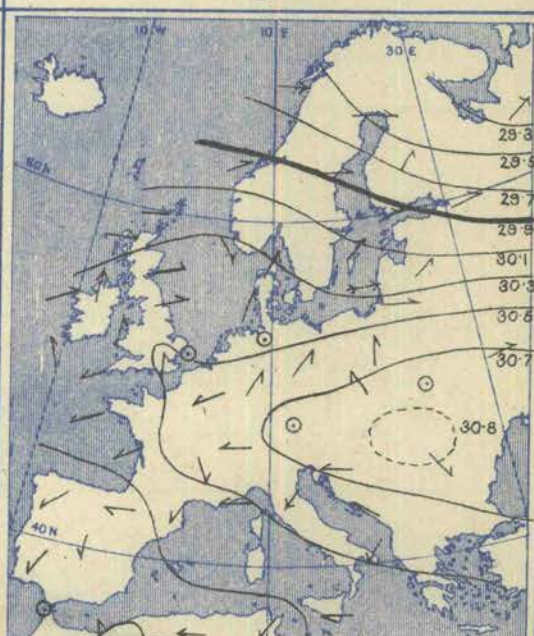
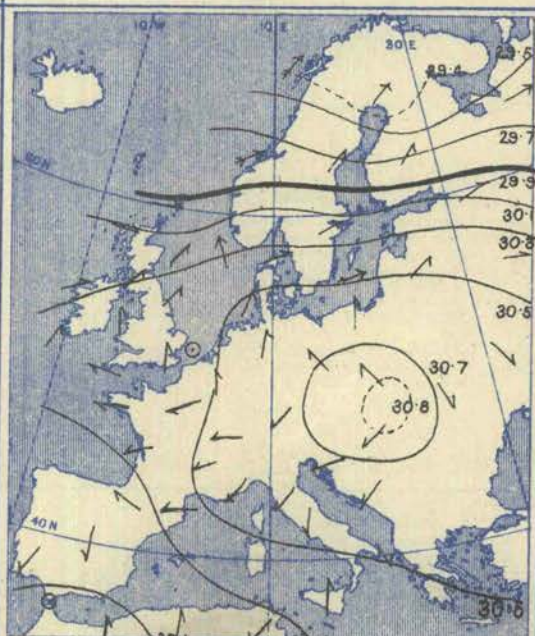
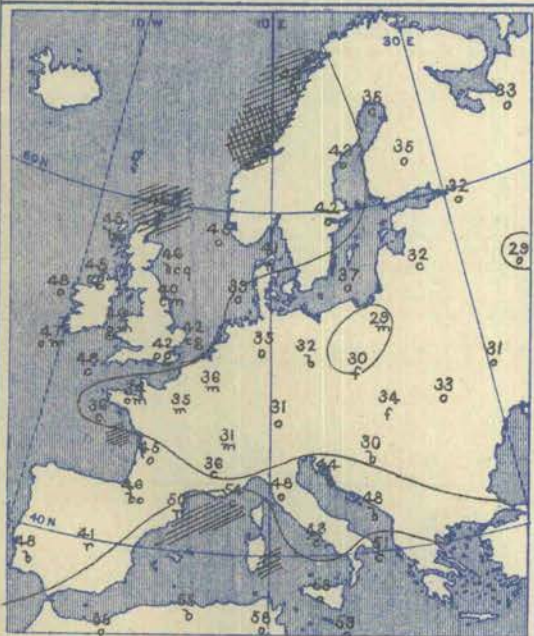
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with mist or fog in many parts of the western and central countries, and with rain at Sumburgh Head, Wick, and Christiansund, as well as at Perpignan and Madrid. Fine at some of our own northern stations, as well as in Austria and Italy. A little rain falling later on our extreme north and north-west coasts, and large amount at Christiansund, as well as in the neighbourhood of the Gulf of Lyons—as much as 2.2 ins. at Perpignan, where thunder occurred in the evening.

Temperature fallen a little in our Islands, and also in Denmark, Germany, and Austria, risen elsewhere. Morning readings highest, 63° at Sfax and 59° at Malta and Annale; above 50° at the Mediterranean stations generally, and very little below it on our own extreme west and south-west coasts. Lowest, 28° at Kharkov and 29° at Moscow, Neufahrwasser and Prague. Rising later to between 47° and 49° at most of our own western and northern stations, but remaining below 45° in the east and south of England. Exceeding 55° in most parts of southern Europe and exceeding 60° at some stations in the southern parts of France and Italy.

Wind South-Westerly or Westerly over the northern parts of our Islands and the Continent, and strong to a gale in force at many of the Scandinavian stations. Light to moderate from the Eastward over the south of England and the greater part of France and Germany, and from the North-Eastward over Austria, northern Italy, and the Spanish Peninsula. No important change occurring over western Europe during day, but gale subsiding on the Norwegian coasts.

Barometer highest, 30.81 ins. at Cracow; 30.7 ins. and upwards over eastern Germany and Austria generally; 30.2 ins. and upwards in an anticyclone covering all but the northern and south-western parts of Europe. Lowest, 29.4 ins. and less in a large and rather deep depression passing eastwards across the north of Scandinavia. Barometer rising over the whole of western Europe during day.

Saturday, 15th January.

Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over western and northern Europe generally, with mist or fog in many places, rain at Christiansund, Sumburgh Head and Stornoway, and snow at Archangel, Helsingfors and Helsingborg. Rain falling also at Perpignan. Fine in the north-east of Scotland, as well as over the west of France, Austria, and the Adriatic. No important change occurring later, but aurora seen in the north-east of Scotland at night.

Temperature fallen generally. Morning readings highest, 61° at Sfax, 60° at La Calle, and 58° at Cagliari, Malta, and Tunis; above 50° at the Mediterranean stations generally, and very little below it in the extreme south-west, west, and north of our Islands. Lowest, (1) 19° at Hermanstad, 22° at Kharkov, and 23° at Munich and Buda Pesth; (2) 25° at Haparanda, and 30° at Archangel, below the freezing point in most parts of eastern and central Europe. Daily maxima below 45° over our eastern and midland counties, but thermometer reaching 50° or more on some parts of our north and south-west coasts; exceeding 55° over the Spanish Peninsula and the extreme south of France, and exceeding 60° in the south of Italy.

Wind light to moderate from the Eastward or South-Eastward over the greater part of England and France, from the Southward in Ireland, and from the South-Westward or Westward over the northern parts of Great Britain. Chiefly Westerly over Scandinavia, Denmark, Russia, and the Baltic, and strong in places, with a gale at Bodø. Calm or variable in Austria, varying between North and East over Italy and the Spanish Peninsula. No important change occurring over western Europe during day.

Barometer highest, 30.8 ins. and upwards over eastern Austria; 30.3 ins. and upwards in an anticyclone covering all but the northern and extreme south-western parts of the Continent. Lowest, 29.2 ins. and less in a depression lying over the extreme north of Russia. Depression subsequently moving away to the eastward, but new disturbance approaching the Norwegian coasts from the Atlantic, and barometer beginning to fall again in extreme north.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: $-b$ = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

Shortly after the commencement of the week an anticyclone advanced over France and the southern parts of our Islands from the Atlantic, while another high pressure area spread out from Russia, the two systems eventually uniting and embracing all but the northern and extreme south-western parts of the Continent. The winds circulated round the highest pressures (lying as a rule over the central countries), being mostly Easterly over France and southern Europe, but Southerly or South-Westerly in our Islands, and South-Westerly or Westerly over Scandinavia and northern Russia. A good deal of fog prevailed over England, France, and Germany, but the weather was mostly dry, with high temperatures in our Islands, but with colder weather over central Europe.

Over the northern countries the conditions were affected by large depressions, which moved along in an easterly direction across the extreme northern parts of Scandinavia and Russia. These disturbances produced occasional gales and heavy rain in Scandinavia, and freshening winds and showers even on our own extreme north and north-west coasts.

In the neighbourhood of the Gulf of Lyons very heavy falls of rain were experienced during the latter half of the week; the total amount at Perpignan, for the four days ending with the morning of the 16th, being as much as 5.3 ins. These rains were not accounted for by the presence of any depression of sufficient importance to be shown on the ordinary weather chart.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 8.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
STRATHPEFFER SPA	9.9	+ 3.4	21	+ 7	BRIGHTON	4.4	- 7.0	8	- 12
EDINBURGH	1.4	- 4.8	3	- 11	EASTBOURNE	4.0	- 8.0	7	- 15
OSWALDKIRK (Yorkshire)	3.2	- 5.0	6	- 9	VENTNOR HOSPITAL	7.7	?	14	?
SHEFFIELD	9.3	?	17	?	SOUTHPORT	4.0	?	8	?
WORKSOP	5.4	- 2.2	10	- 5	COLWYN BAY	4.5*	- 8.3	8*	- 14
THURCASTON (Leicestershire)	3.2	- 5.7	6	- 10	TENBY	20.0	+ 9.0	34	+ 14
PLUMPSTEAD COMMON	1.6	?	3	?	NEWQUAY	7.9*	- 5.5	14*	- 9
MARGATE	1.1	- 8.4	2	- 14	TORQUAY	21.0*	+ 10.7	36*	+ 18
WESTBOURNE (Sussex)	8.8*	- 3.9	15*	- 6	GUERNSEY				

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

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ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

VOL. XV. No. 3.]
Third Series.

WEEK ENDING SATURDAY, JANUARY 22ND, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The Daily Mean is obtained from the maxima and minima by applying a suitable correction determined for each month. The Mean for the Week is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The Means with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The Mean Amounts are those for the corresponding periods in the thirty years 1866-95, but the Mean numbers of Rainy Days are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The Mean Values employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 14.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	60	28	47.4	38.7	43.3	5 above	Day-deg. 23	Day-deg. +17	Day-deg. 9	Day-deg. -34	Day-deg. 51	Day-deg. +34	Day-deg. 50	Day-deg. -78
	1. SCOTLAND, EAST	59	25	48.6	38.2	43.6	7 above	27	+20	11	-34	59	+59	53	-80
	2. ENGLAND, N.E.	57	29	50.3	39.7	45.2	8 above	32	+26	6	-36	72	+54	29	-94
	3. ENGLAND, EAST	55	23	48.3	39.8	44.5	7 above	27	+21	6	-43	49	+30	48	-94
	4. MIDLAND COUNTIES	59	23	49.6	40.5	45.3	8 above	29	+21	4	-44	59	+35	45	-95
	5. ENGLAND, SOUTH	55	30	49.3	42.2	45.9	7 above	27	+18	0	-39	71	+41	14	-101
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	56	32	49.8	42.7	46.4	8 above	31	+22	0	-33	74	+47	13	-83
	7. ENGLAND, N.W.	55	31	49.4	42.3	46.0	7 above	28	+21	0	-35	69	+47	12	-90
	8. ENGLAND, S.W.	55	26	51.3	44.8	48.2	8 above	43	+30	0	-28	96	+56	14	-69
	9. IRELAND, NORTH	58	34	50.6	43.0	47.0	7 above	35	+23	0	-29	79	+44	16	-70
	10. IRELAND, SOUTH	58	37	53.6	47.1	50.5	8 above	60	+42	0	-23	118	+65	6	-63
	-CHANNEL ISLANDS-	56	37	52.9	45.4	49.3	8 above	51	+31	0	-13	123	+59	4	-33

Rainfall.

Bright Sunshine.

DISTRICTS. (See p. 14.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	10ths of in. 23	10ths of in. 9 more	19	+ 4	4·8	+ 1·0	4	- 1	9	- 3	21	+ 7	15	+ 5	
	1. SCOTLAND, EAST	5	6	0 (average)	12	+ 1	1·2	- 0·7	5	- 3	9	- 7	16	- 7	11	- 5	
	2. ENGLAND, N.E.	3	1	3 less	8	- 3	0·8	- 0·5	4	- 5	7	- 10	19	- 9	10	- 6	
	3. ENGLAND, EAST	1	less than ½	4 less	7	- 4	0·7	- 0·6	1	- 10	2	- 18	15	- 16	9	- 10	
	4. MIDLAND COUNTIES	2		1	5 less	6 *	- 5	0·6*	- 1·0	5	- 6	9	- 11	23	- 7	14	- 4
	5. ENGLAND, SOUTH	2	1	5 less	6	- 4	0·5	- 1·4	7	- 3	12	- 6	25	- 6	15	- 4	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	11	2 less	16	+ 3	3·1	- 0·7	5	- 3	10	- 6	14	- 8	10	- 5	
	7. ENGLAND, N.W.	3	.5	3 less	12	+ 1	2·5	+ 0·4	4	- 4	7	- 8	18*	- 6	13	- 3	
	8. ENGLAND, S.W.	3	4	5 less	10	- 2	1·6	- 1·1	7	- 5	11	- 10	32	- 4	18	- 3	
	9. IRELAND, NORTH	4	5	4 less	13	0	1·8	- 0·7	2	- 8	5	- 14	14	- 15	9	- 9	
	10. IRELAND, SOUTH	4	6	3 less	11	- 1	2·4	- 0·3	7	- 5	12	- 10	24	- 13	15	- 8	
	— CHANNEL ISLANDS.	4	1	7 less	11	- 3	0·7	- 1·6	19	+ 8	30	+ 14	54	+ 21	34	+ 12	

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilerux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was again unsettled in the extreme north and north-west, where frequent rains occurred, but elsewhere, although slight rain was experienced at times, it was mainly dry, with, however, a good deal of fog or mist. On the night of Friday considerable quantities of wet snow and cold rain fell in the north and east of Scotland.

Temperature was much above the mean, the excess varying from 5° in Scotland N. to 7° or 8° in all other districts. The absolute maxima were very high for the time of year, especially in the extreme north, and were recorded during the middle of the week. They varied from 60° in Scotland N. (at Wick), and 59° in Scotland E. and the Midland counties to 55° in England E., S., S.W., and N.W. The lowest of the minima were registered during the earlier part of the week, and varied from 25° in Scotland E. and 26° in England S.W. to 32° in Scotland W., 34° in Ireland N., and 37° in Ireland S. and the Channel Islands.

Rainfall was greatly in excess of the mean in Scotland N., and just equal to it in Scotland E., but in all other districts there was a deficit. Over the eastern, central, and southern parts of England and the Channel Islands the fall was extremely slight.

Bright Sunshine was considerably less than the mean in all districts excepting the Channel Islands, where there was a large excess. The percentage of the possible duration ranged from 30 in the Channel Islands, 12 in England S. and Ireland S., and 11 in England S.W., to 5 in Ireland N. and to 2 in England E.

Barometer and Wind.—The distribution of pressure continued anticyclonic over all the southern parts of the Kingdom, and the only disturbances which appeared over our Islands were small systems secondary to large depressions moving in a north-easterly direction far to the northward of Scotland. The most important of these secondaries passed eastwards over the north of Ireland and south of Scotland during the night of the 21st-22nd. The prevailing winds over our Islands were consequently between South-West and West, and, although moderate or light generally, they increased at times over the northern and north-western districts, and blew with the force of a gale on some of the Scotch and Irish coasts on the 18th or 19th.

II.—DATA from which the SUMMARY on page 13 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42° F.	Below 42° F.	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	52	34	47.0	40.3	43.8	+ 4.7	20	5	7	0.95	+ 0.07	*	*	*
	Stornoway	51	33	46.7	39.0	43.0	+ 4.4	20	8	7	1.70	+ 0.54	4.9	- 1.3	10
	Wick	60	30	48.3	38.4	43.6	+ 5.9	26	10	4	0.10	- 0.41	*	*	*
	Laing	57	28	47.7	35.9	42.0	+ 5.4	16	17	7	0.99	+ 0.19	*	*	*
	Glencarron	54	31	46.2	37.9	42.3	+ 5.1	19	11	7	3.61	+ 1.35	*	*	*
	Fort Augustus	52	31	47.0	38.6	43.0	+ 4.8	21	10	7	2.61	+ 1.58	3.2	+ 0.2	6
	Fort William	53	37	48.9	41.1	45.2	+ 6.9	26	3	7	4.98	+ 2.81	1.7	- 3.7	3
1. SCOTLAND, E.	Nairn	58	32	48.4	37.7	43.3	+ 6.1	27	12	6	1.29	+ 0.85	*	*	*
	Aberdeen	59	34	47.9	39.0	43.6	+ 6.2	24	8	2	0.52	- 0.03	9.5	- 2.3	18
	Braemar	50	25	44.2	36.0	40.3	+ 6.1	6	24	5	0.61	- 0.12	4.2	- 0.3	8
	Ochertyre	54	30	49.4	37.6	43.7	+ 7.2	30	12	6	0.82	- 0.28	*	*	*
	Leith	58	36	52.4	40.6	46.7	+ 7.9	39	4	4	0.26	- 0.16	*	*	*
	Marchmont	55	29	49.1	38.3	43.9	+ 7.7	29	10	4	0.21	- 0.41	1.8	- 7.4	3
2. ENGLAND, N.E.	Alnwick Castle	55	33	51.3	38.6	45.2	+ 7.6	37	10	6	0.29	- 0.21	*	*	*
	Durham	54	30	50.0	37.9	44.2	+ 7.5	33	11	4	0.12	- 0.34	6.6	- 3.4	12
	Shields	56	34	51.4	41.0	46.4	+ 8.1	35	3	4	0.15	- 0.28	*	*	*
	Scarborough	55	?	47.0	?	?	?	?	?	0	—	- 0.47	3.4	?	6
	York	57	29	50.7	40.6	45.9	+ 8.5	33	4	1	0.01	- 0.43	1.5	- 5.2	33
	Spurn Head	53	33	47.9	40.3	44.3	+ 6.4	23	5	0	—	- 0.33	*	*	*
3. ENGLAND, E.	Hillington	54	32	48.7	40.8	44.9	+ 8.1	25	3	2	0.06	- 0.41	0.1	- 10.1	0
	Yarmouth	53	30	48.0	39.4	43.9	+ 6.6	24	7	0	0.01†	- 0.46	*	*	*
	Geldeston	54	31	48.6	40.3	44.6	+ 6.8	25	5	0	—	- 0.39	0.9	- 10.8	2
	Cambridge	55	31	50.0	40.1	45.3	+ 8.1	31	5	0	—	- 0.36	2.6	- 8.4	5
	Rothamsted	54	28	48.5	38.4	43.7	+ 6.7	27	10	2	0.02	- 0.56	1.4	- 8.7	2
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	56	33	49.9	39.7	45.0	+ 7.6	31	6	1	0.01	- 0.44	*	*	*
	Loughborough	59	29	50.6	40.6	45.8	+ 8.1	32	4	2	0.08	- 0.39	*	*	*
	Stamford (Duddington)	55	32	49.6	40.6	45.3	+ 8.6	23	4	2	0.04	- 0.43	*	*	*
	Cheadle	54	32	47.4	40.7	44.2	+ 7.6	21	4	3	0.16	- 0.49	*	*	*
	Shirley (near Solihull)	56	28	48.9	39.3	44.3	+ 7.1	27	8	2	0.07	?	*	*	*
	Churchstoke	57	28	50.1	41.8	46.1	+ 8.5	30	1	2	0.13	- 0.52	11.2	+ 1.0	20
	Hereford	59	33	51.2	41.2	46.4	+ 8.2	34	2	2	0.02	- 0.57	*	*	*
	Cirencester	56	30	49.1	40.0	44.7	+ 7.5	27	6	1	0.02	- 0.68	0.5	- 10.7	1
5. ENGLAND, S.	Oxford	55	30	50.0	40.6	45.5	+ 7.3	30	4	0	0.01†	- 0.49	3.7	- 6.9	6
	London	54	30	49.6	39.9	44.9	+ 6.1	29	6	4	0.14	- 0.35	2.8	- 2.8	5
	North Foreland	53	30	49.0	40.6	45.0	+ 6.1	27	4	3	0.29	?	*	*	*
	Dungeness	55	32	49.3	41.4	45.5	+ 6.4	27	2	3	0.05	- 0.53	*	*	*
	Hastings (St. Leonards)	53	35	48.4	42.6	45.6	+ 6.5	25	0	3	0.09	- 0.55	11.3	- 2.2	19
	Southampton	55	36	50.5	44.1	47.4	+ 7.7	38	0	1	0.04	- 0.71	4.1	- 7.7	7
	Hurst Castle	53	41	50.3	45.1	47.8	+ 7.5	41	0	1	0.02	- 0.66	*	*	*
6. SCOTLAND W	Shaftesbury	51	34	48.0	41.8	45.0	+ 7.9	22	1	1	0.06	- 0.64	*	*	*
	Landale (Loch Sunart)	56	38	51.2	41.8	46.7	+ 6.9	34	1	6	2.30	+ 0.35	*	*	*
	Glasgow	53	37	48.4	41.6	45.1	+ 6.6	23	1	5	0.85	- 0.05	4.4	- 0.5	8
	Ardrossan	51	40	48.6	43.7	46.3	+ 6.3	30	0	5	0.82	- 0.10	*	*	*
	Glenlee	54	32	49.5	41.1	45.5	+ 8.5	28	3	7	1.30	- 0.34	*	*	*
	Gilcrux (Cumberland)	52	37	49.5	42.3	46.0	+ 8.4	28	0	4	1.04	?	4.9	?	9
	Douglas (Isle of Man)	54	40	51.4	45.6	48.6	+ 8.4	46	0	3	0.25	- 0.76	6.4	- 4.6	12
7. ENGLAND, N.W.	Stonyhurst	53	33	47.5	41.1	44.4	+ 6.9	21	3	3	1.03	+ 0.09	2.7	- 5.5	5
	Blackpool	53	32	48.8	40.6	44.9	+ 6.8	26	4	3	0.50	- 0.18	2.9	- 5.5	5
	Manchester (Prestwich)	54	31	48.2	41.2	44.8	+ 6.9	23	2	3	0.25	- 0.45	1.6	?	3
	Liverpool Obsy. (Bidston)	55	32	50.6	41.9	46.4	+ 7.3	31	0	3	0.06	- 0.44	*	*	*
	Llandudno	55	36	50.9	43.6	47.4	+ 6.1	38	0	3	0.31	- 0.33	7.9	- 1.9	14
	Holyhead	52	38	50.4	45.4	48.0	+ 5.9	42	0	5	0.54	- 0.20	*	*	*
	Llandoverly	52	26	50.7	38.7	44.9	+ 7.3	34	9	6	1.17	- 0.02	*	*	*
8. ENGLAND, S.W.	Pembroke	51	40	50.0	46.4	48.3	+ 6.2	44	0	3	0.37	- 0.50	4.9	- 7.1	9
	Clifton	55	35	50.1	43.6	47.0	+ 7.6	35	0	2	0.04	- 0.76	*	*	*
	Arlington (N. Devon)	54	36	50.9	43.1	47.2	+ 7.1	36	0	3	0.61	- 0.32	*	*	*
	Cullompton	55	35	52.1	43.6	48.0	+ 8.3	42	0	3	0.15	- 0.48	4.1	- 5.6	7
	Falmouth	54	46	52.5	48.5	50.6	+ 7.3	60	0	4	0.14	- 1.01	7.8	- 4.8	13
	Plymouth	54	42	52.6	46.9	49.9	+ 8.2	55	0	3	0.10	- 0.80	8.0	- 3.2	13
	Prawle Point	52	44	51.1	47.3	49.3	+ 8.0	51	0	3	0.40	- 0.26	*	*	*
9. IRELAND, N.	Malin Head	53	40	49.0	43.7	46.5	+ 5.0	32	0	5	0.57	?	*	*	*
	Londonderry	54	39	50.2	42.0	46.3	+ 6.3	30	0	5	0.48	- 0.44	*	*	*
	Edenfel (Omagh)	54	39	49.7	43.1	46.5	+ 8.6	32	0	5	0.61	- 0.19	*	*	*
	Belmullet	53	40	51.4	44.6	48.1	+ 5.2	43	0	6	0.63	- 0.62	*	*	*
	Markree Castle	54	38	50.6	42.7	46.8	+ 7.4	34	0	5	0.80	- 0.03	1.6	- 7.9	3
	Armagh	56	38	51.4	42.9	47.3	+ 8.4	37	0	4	0.27	- 0.34	3.2	- 6.6	6
	Donaghadee	58	34	51.4	42.0	46.9	+ 6.7	34	0	4	0.30	- 0.40	*	*	*
	Edgeworthstown	54	39	50.9	43.1	47.2	+ 8.9	36	0	1	0.14	- 0.53	*	*	*
10. IRELAND, S.	Dublin	58	37	53.9	47.0	50.6	+ 9.0	60	0	4	0.34	- 0.21	11.5	- 1.7	21
	Parsonstown	57	40	53.6	45.4	49.7	+ 9.9	54	0	4	0.37	- 0.33	5.8	- 5.6	10
	Kilkenny	56	40	53.1	46.4	49.9	+ 8.9	55	0	4	0.34	- 0.46	*	*	*
	Roche's Point	54	45	53.3	48.7	51.1	+ 7.9	64	0	3	0.56	- 0.65	*	*	*
	Valencia	55	41	53.3	47.4	50.5	+ 5.7	60	0	5	1.09	- 0.33	2.8	- 9.8	5
	Killarney	56	39	51.3	47.9	51.2	+ 7.8	64	0	5	0.94	?	*	*	*
	Foynes	56	43	53.6	47.2	50.5	+ 9.3	60	0	4	0.76	?	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	47	54.4	49.0	51.8	+ 6.3	69	0	4	0.12	- 0.72	10.7	?	18
	Jersey	54	37	51.4	41.7	46.7	+ 9.7	34	1	3	0.09	- 0.65	22.1	+ 6.3	36

Stations marked § are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

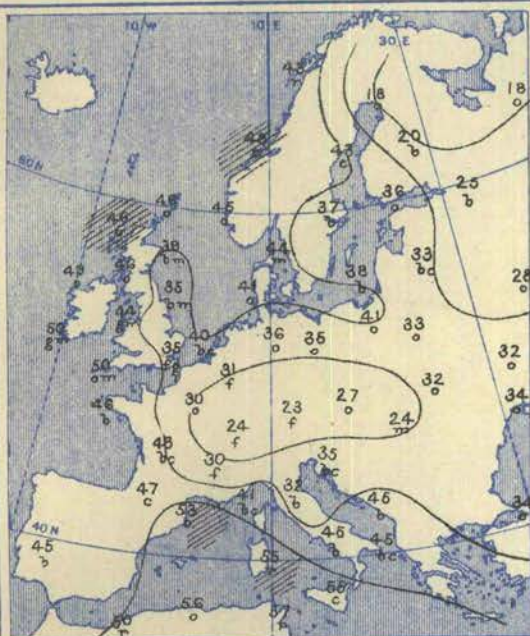
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorder are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page. ‡ Dew or wet fog.

Sunday, 16th January.

Temperature and Weather.

8 a.m.

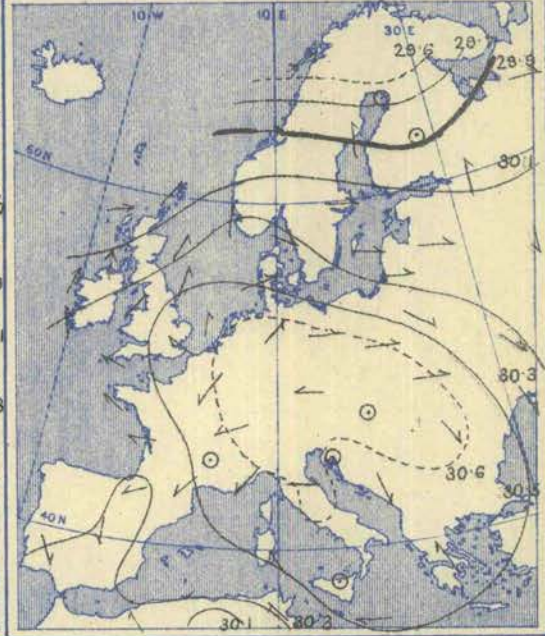


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very quiet over the central and south-western parts of Europe, the Mediterranean, and the south-east of England, but very foggy over the latter regions and France; clear and bright over the east of Scotland, and the south-east of Sweden; dull and rainy over the Gulf of Finland, and very dull over Ireland. Heavy rain at Bodø later, smaller quantities at Sumburgh Head and Stornoway, and a considerable amount at Perpignan and several parts of Algeria; fog continuing over England and France.

Temperature fallen several degrees over the British Islands and France, and still more decidedly over Finland and the north of Russia—risen over the south of Russia. Morning readings highest, 57° to 59° at the Algerian stations, 50° on our own extreme south-western coasts, 49° at Belmullet, 48° at Christiansund, 45° at Stornoway. Lowest, (1) 18° at Haparanda and Archangel, 20° at Kuopio, and below 30° over the northern half of Russia generally; (2) 23° to 27° over central Europe; (3) 33° to 38° over the inland parts of England. Rising later to between 55° and 59° over many parts of Ireland, but remaining below 40° over the greater part of England; touching 67° at Biarritz, Nemours, and Algiers.

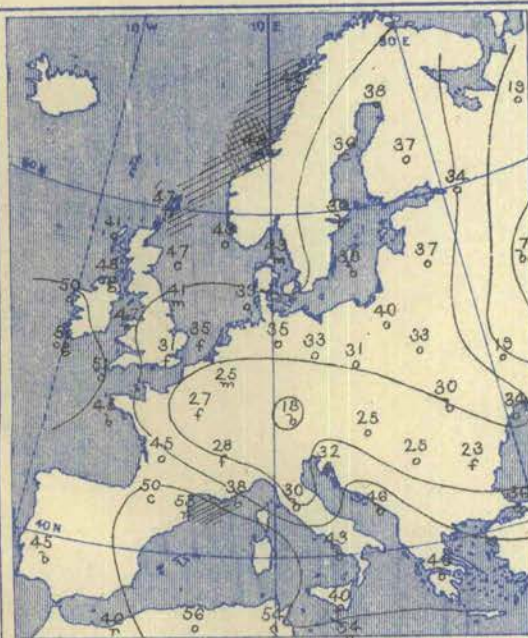
Wind light and anticyclonic over central and south-western Europe, but strong from East on the coasts of the south of France; Easterly to Southerly on our southern and western coasts, South-Westerly, strong to a gale, in the north-west of Norway, and at Stornoway. Becoming still stronger on our north-western coasts later.

Barometer, highest 30.7 ins. and more over Austria-Hungary, and exceeding 30.4 ins. over the greater part of central, southern, and western Europe, the North Sea, England, and the eastern half of Ireland. Lowest, below 29.5 ins. over the north-east of Russia, and below 29.7 ins. over Finmark. Falling fast over our north-western districts later.

Monday, 17th January.

Temperature and Weather.

8 a.m.

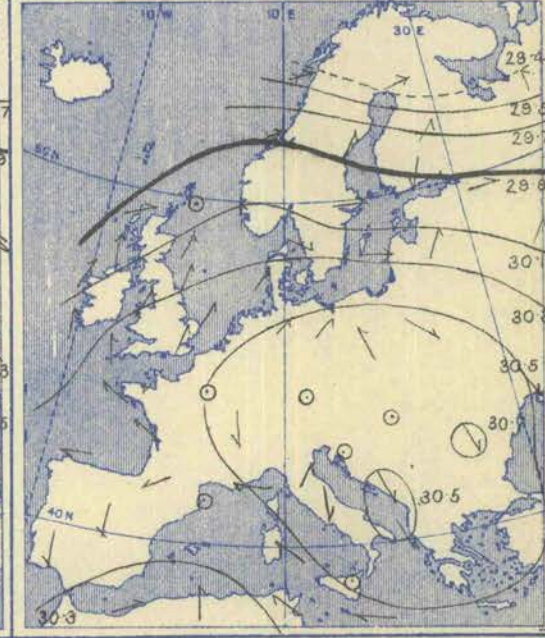


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over central Europe, foggy over the eastern parts of France and England, overcast in Ireland, cloudy in Scotland, rainy over the Shetlands and north-west of Norway. Heavy rain at Bodø later, and considerable falls at Christiansund and Stornoway, and smaller quantities in the west of Ireland. Much fog prevalent over England and the Continent.

Temperature risen over Scotland and the north of Ireland, fallen over France and the south-eastern half of England, but changing irregularly at the English stations generally. Morning readings highest, 51° at Scilly and Valencia, 50° at Roche's Point and Belmullet, 49° at Nairn, 45° at Christiansund. Lowest, (1) 19° at Kiev, 23° at Hermanstadt, 30° at Lemberg, (2) 18° at Munich, 21° at Belfort, and below 30° all over south Germany and the east of France, (3) 31° in London, 33° at Oxford and Cambridge; little change during the day, but a decided rise occurring over the British Islands at night.

Wind light and anticyclonic over central Europe, France and the Netherlands, Southerly and light over England, Southerly moderate to strong in Ireland, South-Westerly over Scotland, Westerly to South-Westerly over Norway and blowing hard both at Christiansund and Bodø. Very little change later beyond an increase in force of wind from the Southward over Ireland.

Barometer highest, 30.6 ins. and more over the southern parts of central Europe, and exceeding 30.4 ins. over the whole of Germany, Austria, France and the greater part of England. Lowest, 29.4 ins. and less over the eastern parts of Iceland, and below 29.3 ins. over the Shetland Islands; gradients rather steep over Scotland and Scandinavia. Rising decidedly over Norway and the Shetlands later, but falling slowly over Ireland and England.

Tuesday, 18th January.

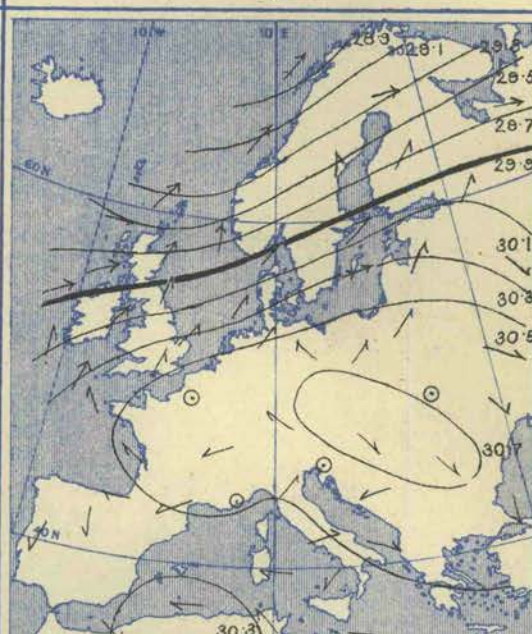
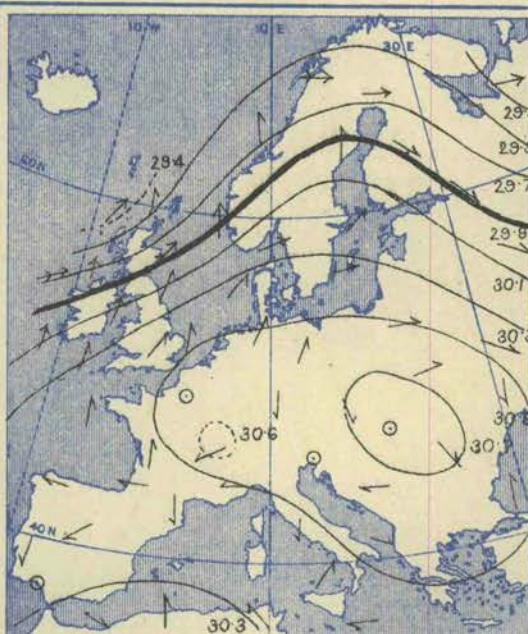
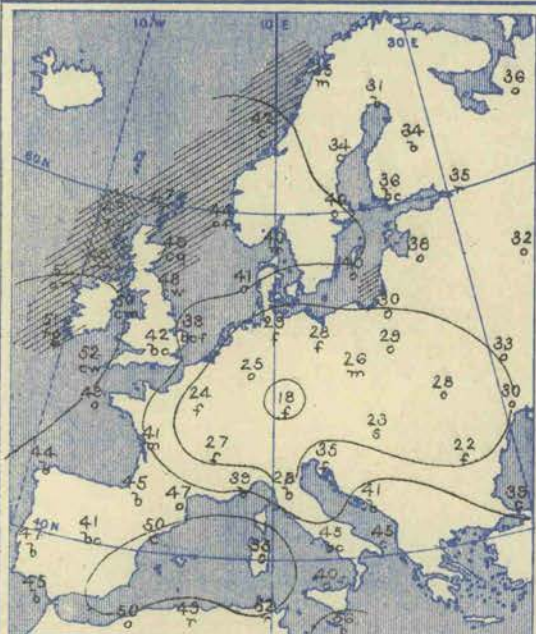
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine in the east and south-east of England, but with fog locally, cloudy or dull in other parts of our Islands, with rain in Ireland and the west of Scotland. Foggy over the central parts of the Continent generally, and cloudy in the northern and eastern countries, with rain at St. Petersburg, and snow at Buda-Pesth; fine over Italy, Spain and the south of France. Rain falling later in the west and extreme north of our Islands generally, and also over the northern parts of Scandinavia.

Temperature risen briskly over England, fallen in many parts of the Continental countries. Morning readings highest, (1) 56° at Malta, 55° at Cagliari, and 52° at Tunis; (2) 52° at Roche's Point and Scilly, touching 50° at several of our own western and southern stations. Lowest, 15° at Munich, 22° at Hermanstadt, and 23° at Buda-Pesth and Belfort; below the freezing point over central Europe generally. Rising during day to 50° and upwards in nearly all parts of our Islands, and to 53° at Nairn, exceeding 50° also in the west and south of France.

Wind Southerly and South-Westerly over north-western Europe as a whole, and strong to a gale in force on many parts of our own western and northern coasts, as well as in the west of Norway. Westerly or North-Westerly in Russia, calm or variable in Austria and Italy; Easterly or North-Easterly over the Spanish Peninsula and south of France. Subsequently moving to the Westward on our own extreme north-west coasts; no important change occurring elsewhere.

Barometer highest, 30.7 ins. and upwards over eastern Austria, 30.3 ins. and upwards in an anticyclone, embracing all the more central and southern parts of the Continent, and extending over the south and east of England. Lowest, 29.3 ins. and less in a depression passing away across the north of Russia; 29.4 ins. and less in a new disturbance approaching the north-west of Scotland. Latter system moving north-eastwards later, and barometer rising again on our western coasts.

Wednesday, 19th January.

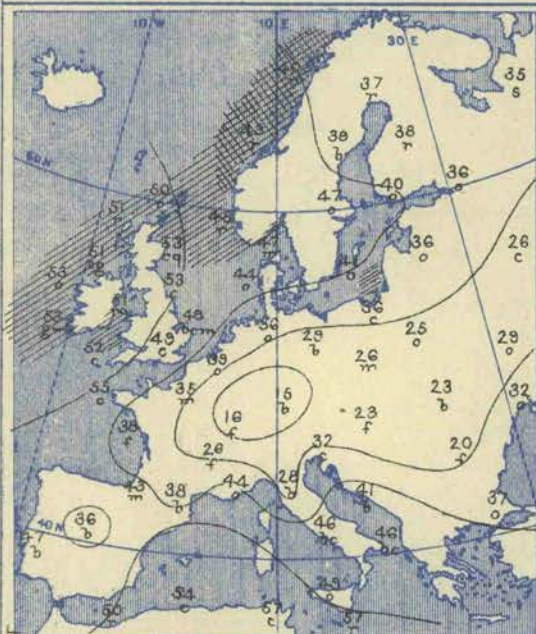
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and quiet over central, southern and south-western Europe, although foggy at several of the French stations; dull and unsettled over the British Islands, Norway, and the north of Russia, with rain at several stations; snow at Archangel. Heavy rain later in the west of Norway, and considerable quantities in the Shetlands, Hebrides and the west of Ireland, and smaller quantities at our northern and western stations generally, as well as (locally) in the south-east of England.

Temperature showing a further rise over the British Islands and north of France. Morning readings highest, 56° at Leith, and 54° to 50° over all but the eastern parts of England. Lowest, 15° at Munich, 16° at Belfort, and much below the freezing point over central Europe generally; 26° at Moscow, but 35° at Archangel. Rising quickly to between 58° and 60° in the east of Scotland, to 55° at Leith and Donaghadee, and to 57° at Parsonstown and York, but falling very abruptly at the Scotch stations towards the evening—the change from the maximum to the 6.0 p.m. reading being as great as 21° at Wick, and 15° at Aberdeen.

Wind light and anticyclonic over all the southern half of Europe, but South-Westerly over all the northern and north-western countries—mainly cyclonic, and strong to a gale in force, in many places. Shifting to the North-Westward in the east of Scotland later and blowing a gale.

Barometer highest, 30.7 ins. and more to 30.3 ins. in a large anticyclonic system covering all the southern half of Europe. Lowest, 28.8 ins. and less over Lapland, and below 29.4 ins. over the Shetland Islands. Rising very quickly in the north and north-west of the British Islands later.

Thursday, 20th January.

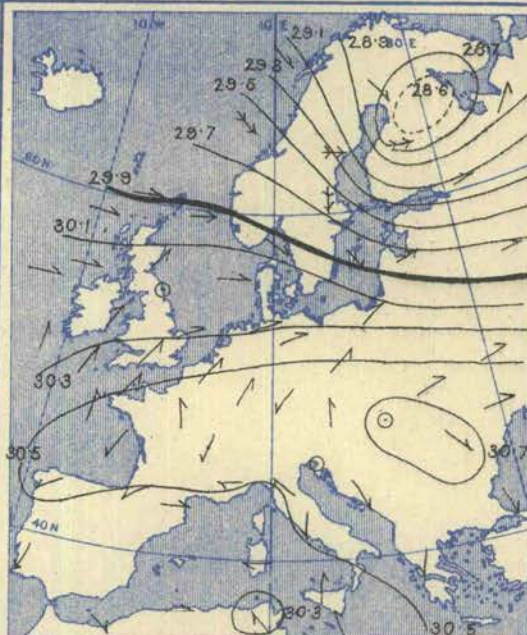
Temperature and Weather.

8 a.m.

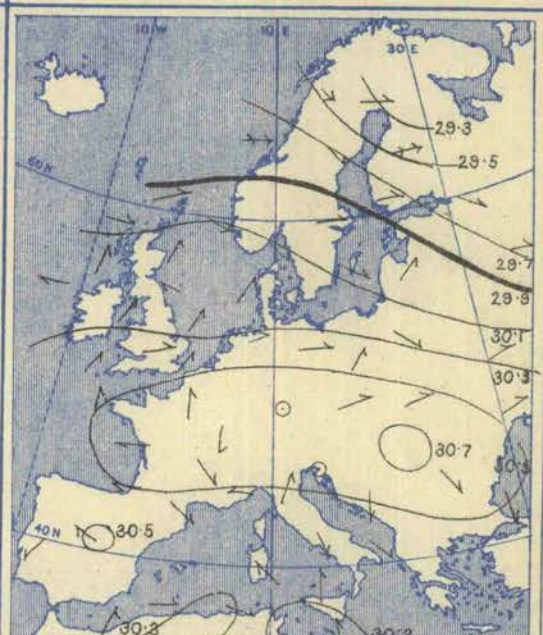


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair and very quiet over France, south-eastern and south-western Europe and the Mediterranean, but foggy at several of the French and south German stations; fine also on the Swedish coasts and in some parts of Scotland; dull over Ireland, England, Norway and Finland, with rain in several places. Rain falling later in small quantities over the British Islands, the eastern shores of the North Sea and at Christiansund; weather remaining clear over Sweden, foggy over France and at some of the southern stations in England.

Temperature fallen decidedly in Scotland. Morning readings highest, 53° at Scilly, 52° at Valencia, and exceeding 50° over the south-western and southern half of our Islands generally, exceeding 40° on the shores of the Baltic and the Gulf of Finland. Lowest, (1) 16° at Munich, 18° at Belfort, 19° at Hermanstadt, and much below the freezing point over the southern parts of France, Germany, Austria and the north of Italy; (2) 23° at Haparanda, 31° at Bodö, 32° at Archangel, 37° to 38° in the east of Scotland. Continuing very mild over England all day.

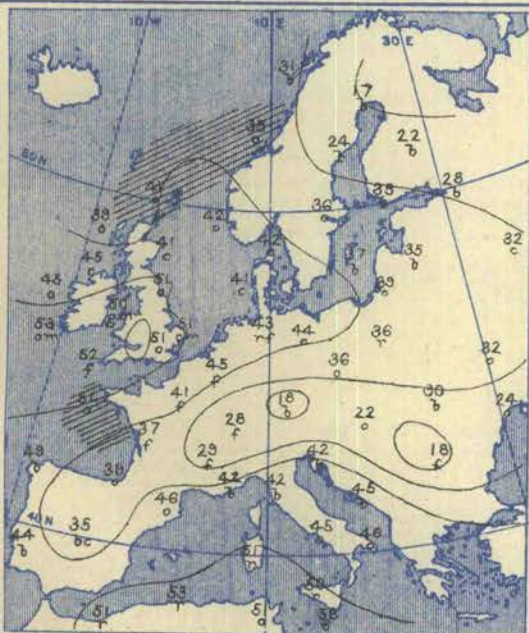
Wind (1) light and anticyclonic over the southern half of Europe generally; South-Westerly and variable over the United Kingdom; fresh to light in force; (2) North-Westerly to South-Westerly over northern Europe and the Baltic, and moderate to a strong gale in force. Very little change later over our Islands and France.

Barometer highest, 30.7 ins. and more over Hungary, and exceeding 30.4 ins. over the southern half of Europe generally. Lowest, 28.6 ins. and less in a depression off the north of Finland. Gradients very steep over northern Europe, slight in the south, moderate and irregular over the British Islands. Rising over the United Kingdom and western Europe all day.

Friday, 21st January.

Temperature and Weather.

8 a.m.

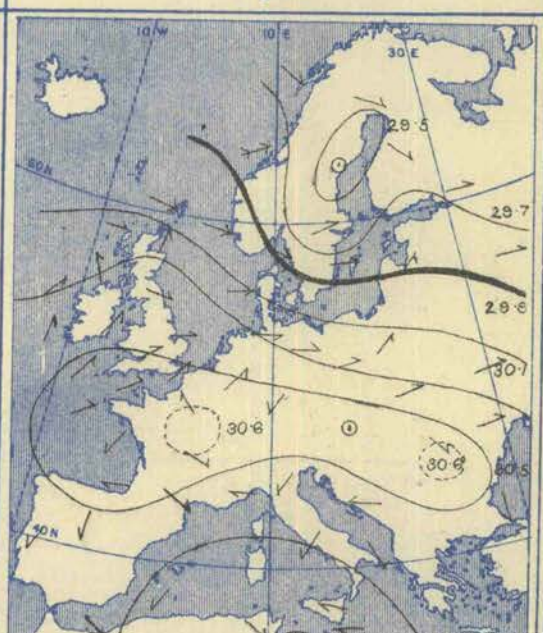


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair over the southern half of Europe, but very foggy at many of the inland stations; dull and misty in many parts of our Islands; dull over north Germany, with rain in several places, but clear over Lapland, Finland, and Sweden; considerable falls of wet snow and rain in the east of Scotland at night, and slight rain showers in many parts of our Islands; snow and rain in Sweden, the Baltic Provinces, and Poland.

Temperature changing little and irregularly over our Islands, fallen rapidly over Finland and the north of Russia. Morning readings highest, 58° to 50° on the southern side of the Mediterranean, 53° to 50° in the south of Ireland and over many parts of England and Brittany, 46° at the Helder, 45° at Swinemünde. Lowest, (1) 17° at Haparanda, 28° at St. Petersburg, 32° at Moscow; (2) 18° at Munich and Hermanstadt, 22° at Kharkov and Vienna, 28° at Belfort and Limoges. Rising to 55° in several parts of England and Ireland during day, to 50° at Malta, 65° at La Calle, and 68° at Croisette. Falling suddenly over Scotland at night.

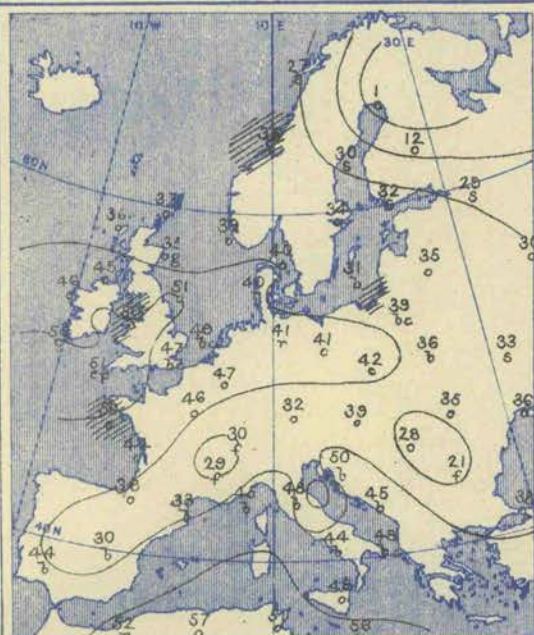
Wind light and anticyclonic over all the southern countries of Continental Europe, South-Westerly to Westerly and moderate over the British Islands. Westerly to North-Westerly and strong over Scandinavia, the Baltic and Finland. Very sudden changes from South to West and North taking place later over Scotland and the north of Ireland. No decided change elsewhere.

Barometer highest, 30.6 ins. and more to 30.4 ins. in a complex anticyclonic system, covering the south-western and south-eastern countries. Lowest, 29.5 ins. and less over Lapland and the Kola Peninsula, and below 29.8 ins. over the Shetlands. A very small depression reaching the north-west of Ireland later, and travelling quickly to the eastward across Scotland.

Saturday, 22nd January.

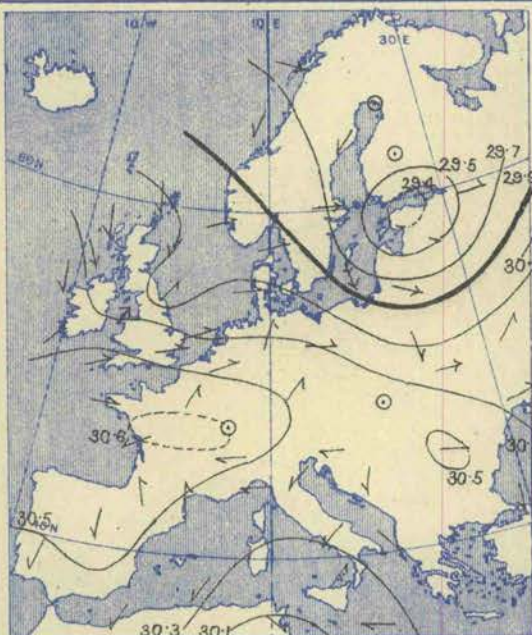
Temperature and Weather.

8 a.m.

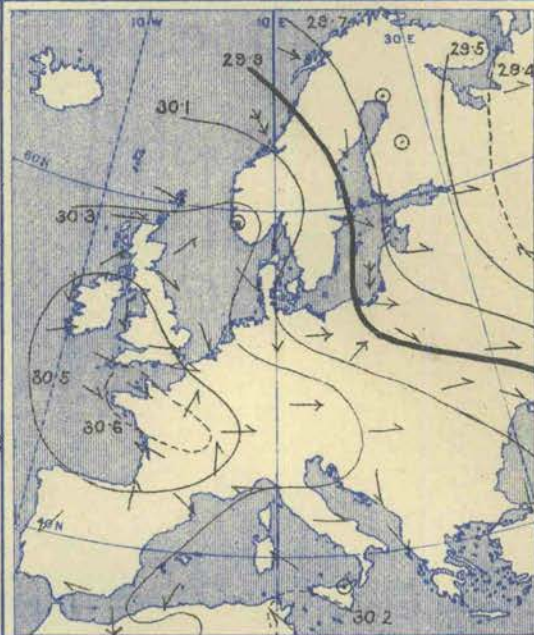


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over southern and many parts of south-western Europe, at some isolated stations over north Germany and Sweden, and in many parts of the British Islands; dull elsewhere—snow falling over the southern parts of Finland and some other parts of Russia; rain in Holland. Rain or snow later in many parts both of Continental Europe and in the Azores.

Temperature fallen rapidly over Finland, considerably over Scotland, but risen somewhat over France, Germany, and the south of Russia. Morning readings highest, 57° at Algiers, 56° at Malta, 52° at Liverpool, 51° at Scilly and Shields, 50° at Prawle Point, Jersey, York, and Leith. Lowest, 1° Fahr. at Haparanda, 12° at Kuopio, 27° at Bodö, 29° at St. Petersburg; (2) 21° at Hermanstadt, 28° at Buda Pesth; (3) 29° at Lyons, 30° at Belfort, 31° at Limoges. Rising later to between 50° and 55° over England and Ireland, not nearly so high over Scotland, but touching 61° at Nice. Falling fast over England late at night.

Wind light and anticyclonic over the Channel, France, and Spain; North-Westerly to North-Easterly over the Mediterranean; South-Westerly to Westerly over England; North-Westerly and Northerly over Scotland and Norway. A well-marked cyclonic circulation observed over the Baltic and the Gulf of Finland—a gale being reported at Neufahrwasser, Memel, and a very strong gale at Wisby. Becoming light and more variable over our Islands later.

Barometer highest, 30.6 ins. and more over central and western France, and exceeding 30.3 ins. over Spain, Ireland, England, and the greater part of Germany. Lowest, below 29.4 ins. in a depression over the western part of the Gulf of Finland, and below 30.1 ins. in a very small one over the south-east of Scotland. Rising over the British Islands and Scandinavia, falling fast over Germany.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\Rightarrow$ = a heavy gale; $\Rightarrow$ = a gale; $\Rightarrow$ = a fresh to strong breeze; $\Rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: — = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

An examination of the charts for this week shows that from Sunday to Friday pressure was continuously highest over the southern countries and lowest in the north. The wind was consequently mainly from the Westward or South-Westward over the British Islands and north-western Europe, and (e.g.) between Tuesday and Thursday blew very strongly at the Norwegian stations and on the northern coasts of the British Islands. On Friday night, however, the high pressure area moved westwards, and while a large depression moved south-eastwards across Scandinavia to the central and eastern parts of Russia, a very small secondary travelled eastwards over the southern parts of Scotland, producing much wet snow and cold rain in that country.

As might be expected temperature was, as a whole, much lower over Central Europe than elsewhere, the morning readings on Wednesday being as low as 15° to 25° in those regions. Over the British Isles the values were much above the normal, and between Tuesday and Thursday they were exceptionally high. On Thursday a broad band of high temperature (exceeding 40°) was spreading from our own east coasts and the north of France across the North Sea, Denmark and the Baltic to the Gulf of Finland and St. Petersburg.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 14.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
STRATHPEFFER SPA	7.5	+ 0.6	15	+ 1	WATERGATE (Emsworth)	3.3	?	6	?
EDINBURGH	3.8	- 3.6	7	- 8	BRIGHTON	7.8	- 3.6	13	- 7
MORPETH	8.8	?	16	?	EASTBOURNE	12.7	+ 0.5	22	+ 1
NEWCASTLE-ON-TYNE	1.8	?	3	?	VENTNOR HOSPITAL	9.6	?	16	?
OSWALDKIRK (Yorkshire)	2.1	- 6.5	4	- 12	SOUTHPORT	3.7	?	7	?
SHEFFIELD	8.7	?	16	?	COLWYN BAY	5.0	?	9	?
WORKSOP	3.2	- 5.0	6	- 9	TENBY	5.5*	- 7.5	10*	- 13
THURCASTON (Leicestershire)	1.7	- 7.3	3	- 13	NEWQUAY	7.5	- 5.3	13	- 7
PLUMSTEAD COMMON					TORQUAY	7.9*	- 12.6	13*	- 10
MARGATE	7.9	- 2.0	13	- 4	GUERNSEY	22.7*	+ 11.7	37*	+ 18
WESTBOURNE (Sussex)	5.8*	- 6.9	10*	- 12					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

Vol. XV. No 4.]
Third Series.

WEEK ENDING SATURDAY, JANUARY 29TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 20.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	58	29	49.3	42.0	45.8	8 above	Day-deg. 27	Day-deg. +20	Day-deg. 0	Day-deg. -43	Day-deg. 78	Day-deg. +54	Day-deg. 50	Day-deg. -121
	1. SCOTLAND, EAST	57	25	50.2	40.2	45.4	9 above	31	+23	5	-40	90	+62	58	-120
	2. ENGLAND, N.E.	56	28	49.5	37.8	43.9	6 above	31	+25	12	-29	103	+79	41	-123
	3. ENGLAND, EAST	52	28	45.9	36.6	41.5	4 above	11	+4	23	-25	60	+34	71	-119
	4. MIDLAND COUNTIES	54	28	46.6	37.4	42.2	4 above	21	+12	13	-35	80	+47	58	-130
5. ENGLAND, SOUTH	52	33	46.1	40.4	43.3	4 above	16	+7	4	-35	87	+48	18	-136	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	55	28	49.7	43.7	46.8	8 above	34	+24	0	-33	108	+71	13	-116
	7. ENGLAND, N.W.	55	33	48.7	42.1	45.5	6 above	25	+17	0	-35	94	+64	12	-125
	8. ENGLAND, S.W.	54	34	47.9	41.9	45.0	4 above	21	+7	0	-28	117	+63	14	-97
	9. IRELAND, NORTH	55	31	50.1	42.4	46.4	6 above	31	+18	0	-28	110	+62	16	-98
	10. IRELAND, SOUTH	58	35	51.5	44.7	48.3	6 above	44	+25	0	-22	162	+90	6	-85
	—CHANNEL ISLANDS.	53	34	48.9	42.9	46.0	2 above	28	+8	0	-13	151	+67	4	-46

DISTRICTS. (See p. 20.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 12	10ths of in. 0 (average)	25	+4	6.0	+0.9	4	-3	7	-6	25	+5	13	+3
	1. SCOTLAND, EAST	1	less than ½	6 less	13	-2	1.2	-1.4	10	0	17	0	26	-6	13	-3
	2. ENGLAND, N.E.	1	less than ½	5 less	9	-6	0.8	-1.0	10	+1	18	+1	29	-8	12	-4
	3. ENGLAND, EAST	1	1	4 less	8	-8	0.8	-1.0	6	-6	10	-11	21	-22	9	-10
	4. MIDLAND COUNTIES	1	less than ½	6 less	7	-8	0.6	-1.6	3	-10	4	-17	26	-16	11	-8
5. ENGLAND, SOUTH	0	—	7 less	6	-9	0.5	-2.0	3	-8	5	-14	28	-14	13	-6	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	1	12 less	19	+1	3.2	-1.9	4	-4	7	-8	18	-12	10	-5
	7. ENGLAND, N.W.	2	4	4 less	14	-2	2.9	+0.1	5	-4	8	-7	23	-10	12	-4
	8. ENGLAND, S.W.	1	1	8 less	11	-6	1.7	-1.9	3	-10	5	-16	35	-14	15	-6
	9. IRELAND, NORTH	2	2	6 less	15	-4	2.0	-1.3	6	-5	11	-9	20	-20	9	-10
	10. IRELAND, SOUTH	1	3	7 less	12	-5	2.7	-1.0	7	-6	12	-11	31	-19	14	-9
—CHANNEL ISLANDS.		1	less than ½	8 less	12	-7	0.7	-2.4	3	-11	4	-18	57	+10	27	+4

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilerux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather continued very mild, dry, and dull generally, but by the end of the period unsettled conditions were becoming prevalent in nearly all districts. On our extreme northern coasts rain was of frequent occurrence throughout the week.

Temperature was again above the mean; the excess ranging from 2° in the Channel Islands, and from 4° over the central, southern, south-western, and eastern parts of England, to as much as 8° in Scotland N. and W., and 9° in Scotland E. The highest of the maxima were registered, as a rule, on the 29th, and ranged from 58° in Scotland N. and Ireland S., to 53° in the Channel Islands, and to 52° in England S. The lowest of the minima were recorded on rather irregular dates, and ranged from 25° in Scotland E. (at Braemar), and 28° over the eastern and central parts of England and in Scotland W., to 35° in Ireland S.

Rainfall just equalled the mean in Scotland N.; in most other districts rain was altogether absent until Saturday, when considerable falls were recorded at some of the western stations, and slight amounts in most other places.

Bright Sunshine was much less than the mean in all districts except Scotland E. and England N.E. The percentage of the possible duration ranged from 13 in England N.E., to 11 or 12 over Ireland, to 5 in England S. and S.W., and to 4 in the Midland counties and the Channel Islands.

Barometer and Wind.—The distribution of pressure was again mainly anticyclonic over all the more southern parts of the Kingdom. Large depressions passing eastwards to Scandinavia occasionally affected our extreme northern coasts, but no disturbances appeared directly over us. By the end of the week, however, the barometer was falling decidedly in the west and north, and the anticyclone was moving south-eastwards. This change caused the wind, which had been generally light or moderate from the Westward or South-Westward, to increase greatly on our western and northern coasts, and to reach the force of a gale at a few places.

II.—DATA from which the SUMMARY on page 19 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42° F.	Below 42° F.	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	50	31	48.0	39.7	44.0	+ 5.0	24	6	1.06	+ 0.20	*	*	*	*
	Stornoway	51	33	49.6	42.1	46.0	+ 7.1	28	0	0.70	- 0.40	2.3	- 5.5	4	-11
	Wick	58	29	50.7	39.1	45.1	+ 7.2	34	8	0.25	- 0.25	*	*	*	*
	Laing	53	36	49.0	42.1	45.7	+ 9.0	26	0	0.76	- 0.04	*	*	*	*
	Glencarron	52	38	48.4	43.9	46.2	+ 9.0	29	0	3.02	+ 0.82	*	*	*	*
	Fort Augustus	52	34	49.7	42.6	46.3	+ 8.1	30	0	0.62	- 0.38	2.2	- 1.8	4	- 4
1. SCOTLAND, E.	Fort William	53	39	49.6	44.5	47.2	+ 8.7	36	0	1.96	- 0.16	1.3	- 5.6	2	-11
	Nairn	57	32	53.1	41.7	47.6	+10.3	40	1	0.09	- 0.31	*	*	*	*
	Aberdeen	54	31	49.6	36.6	43.4	+ 5.8	32	15	0.06	- 0.53	11.3	- 1.6	21	- 3
	Braemar	52	25	47.0	38.7	43.0	+ 8.6	21	9	0.01	- 0.71	9.3†	+ 3.1†	17†	+ 5†
	Ochertyre	53	37	50.7	42.7	46.9	+10.3	34	0	0.03	- 1.07	*	*	*	*
	Leith	55	31	51.6	40.7	46.4	+ 7.5	36	4	0	- 0.48	*	*	*	*
2. ENGLAND, N.E.	Marchmont	53	34	49.1	40.9	45.2	+ 8.6	27	3	0.04	- 0.63	8.5	- 1.5	15	- 4
	Alnwick Castle	52	30	51.1	39.9	45.7	+ 7.8	35	6	0.01	- 0.52	*	*	*	*
	Durham	52	28	50.3	35.7	43.3	+ 6.1	36	18	0	- 0.47	15.2	+ 4.2	27	+ 7
	Shields	56	33	51.7	38.7	45.5	+ 6.7	38	9	0	- 0.47	*	*	*	*
	Scarborough	51	31	48.3	37.2	43.0	+ 4.4	27	13	0.02	- 0.46	13.1	?	23	?
	York	52	29	48.9	36.4	42.9	+ 4.7	30	16	0.01	- 0.47	3.5	- 4.5	6	- 8
3. ENGLAND, E.	Spurn Head	50	37	46.7	39.1	43.1	+ 4.5	20	8	0	- 0.37	*	*	*	*
	Hillington	49	32	45.1	37.4	41.4	+ 3.7	9	19	0.03	- 0.45	6.5	- 5.3	11	- 9
	Yarmouth	50	33	46.1	37.7	42.1	+ 4.5	19	12	0.15	- 0.34	*	*	*	*
	Geldeston	49	32	45.6	37.4	41.7	+ 3.5	10	20	0.04	- 0.38	8.2	- 4.7	14	- 8
	Cambridge	52	28	47.4	35.6	41.7	+ 3.6	15	28	0.02	- 0.37	5.3	- 6.9	9	-12
	Rothamsted	51	28	45.5	35.1	40.5	+ 3.1	10	28	0.01	- 0.58	3.7	- 7.3	6	-13
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	31	48.7	36.4	42.8	+ 4.7	29	16	0	- 0.47	*	*	*	*
	Loughborough	53	29	47.3	37.4	42.6	+ 4.4	24	13	0.02	- 0.48	*	*	*	*
	Stamford (Duddington)	52	28	46.7	36.3	41.7	+ 4.2	13	25	0.02	- 0.47	*	*	*	*
	Cheadle	46	32	44.9	37.3	41.3	+ 4.2	8	20	0.24	- 0.45	*	*	*	*
	Shirley (near Solihull)	52	30	45.6	36.6	41.3	+ 3.9	10	23	0.05	?	*	*	*	*
	Churchstoke	54	31	47.1	38.8	43.1	+ 4.2	21	9	0	- 0.60	*	*	*	*
5. ENGLAND, S.	Hereford	52	30	46.3	37.3	42.0	+ 4.1	12	13	0.02	- 0.71	0.0	-12.0	0	-21
	Cirencester	52	34	46.3	39.1	42.8	+ 4.1	18	8	0	- 0.52	1.7	- 9.5	3	-17
	Oxford	52	33	46.7	38.7	42.9	+ 3.5	20	2	0.01	- 0.49	0.4†	- 5.6†	1†	-10†
	London	46	38	44.4	39.7	42.1	+ 2.8	10	6	0	?	*	*	*	*
	North Foreland	49	34	46.6	39.0	43.0	+ 3.4	20	8	0	- 0.60	*	*	*	*
	Dungeness	49	37	45.9	40.2	43.2	+ 3.6	16	5	0	- 0.65	6.1	- 8.0	10	-14
6. SCOTLAND W	Hastings (St. Leonards)	51	39	47.6	42.2	45.0	+ 4.8	21	0	0	- 0.76	0.1	-12.9	0	-22
	Southampton	50	40	47.1	43.4	45.3	+ 4.5	23	0	0	- 0.68	*	*	*	*
	Hurst Castle	49	36	44.1	39.5	41.9	+ 4.4	6	11	0	- 0.70	*	*	*	*
	Shaftesbury	55	37	51.2	45.2	48.3	+ 8.2	44	0	0.27	- 1.69	*	*	*	*
	Laudale (Loch Sunart)	52	35	49.1	44.2	46.8	+ 7.9	34	0	0.06	- 0.89	2.6	- 3.6	5	- 6
	Glasgow	51	36	49.3	44.3	46.9	+ 6.8	34	0	0.12	- 0.87	*	*	*	*
7. ENGLAND, N.W.	Arrossan	52	28	50.0	40.6	45.5	+ 8.3	30	4	0.24	- 1.36	*	*	*	*
	Glenlee	50	42	48.0	43.9	46.0	+ 8.1	28	0	0.28	?	1.1	?	2	?
	Gilcrux (Cumberland)	52	35	50.4	44.0	47.3	+ 6.4	37	0	0.37	- 0.65	7.4	- 4.6	13	- 9
	Douglas (Isle of Man)	51	37	47.2	41.4	44.4	+ 6.2	19	2	0.37	- 0.61	1.7	- 7.3	3	-13
	Stonyhurst	51	33	48.9	41.8	45.5	+ 6.6	25	1	0.19	- 0.51	8.3	- 0.7	14	- 2
	Blackpool	50	38	47.1	41.2	44.3	+ 5.9	19	2	0.14	- 0.56	0.4	?	1	?
8. ENGLAND, S.W.	Manchester (Prestwich)	54	38	49.1	41.3	45.4	+ 6.0	27	2	0.13	- 0.39	*	*	*	*
	Liverpool Obsy. (Bidston)	55	38	50.0	42.9	46.6	+ 5.1	32	0	0.63	- 0.03	8.5	- 2.3	14	- 5
	Llandudno	51	41	49.7	44.1	47.0	+ 4.7	35	0	0.68	- 0.06	*	*	*	*
	Holyhead	51	36	47.0	38.7	43.0	+ 5.3	21	9	0.36	- 0.83	*	*	*	*
	Llandoverly	51	45	49.4	46.0	47.8	+ 5.7	41	0	0.21	- 0.67	5.6	- 7.4	9	-13
	Pembroke	54	39	46.9	42.6	44.8	+ 4.8	20	0	0	- 0.80	*	*	*	*
9. IRELAND, N.	Clifton	50	36	45.9	39.6	42.9	+ 2.7	16	7	0.11	- 0.79	*	*	*	*
	Arlington (N. Devon)	52	34	47.4	40.7	44.2	+ 4.1	21	4	0.01	- 0.59	0.1	-10.5	0	-18
	Cullompton	52	42	49.9	44.1	47.1	+ 3.5	36	0	0	- 1.06	5.4	- 8.3	9	-13
	Falmouth	53	41	48.9	42.2	45.7	+ 3.6	26	0	0	- 0.90	3.9	- 8.7	6	-14
	Plymouth	53	40	47.7	41.6	44.8	+ 3.0	21	1	0	- 0.64	*	*	*	*
	Prawle Point	55	41	49.9	44.3	47.2	+ 5.4	36	0	0.17	?	*	*	*	*
10. IRELAND, S.	Malin Head	55	39	50.3	42.4	46.6	+ 7.2	32	0	0.12	- 0.80	*	*	*	*
	Londonderry	54	31	48.6	39.4	44.2	+ 5.9	26	7	0.21	- 0.60	*	*	*	*
	Edenfel (Omagh)	53	43	51.1	45.9	48.6	+ 5.5	46	0	0.52	- 0.73	*	*	*	*
	Belmullet	54	38	50.6	41.7	46.3	+ 6.2	31	1	0.21	- 0.56	5.1	- 5.2	9	-10
	Markree Castle	54	38	49.5	41.8	45.8	+ 6.4	27	1	0.14	- 0.40	6.9	- 3.9	12	- 8
	Armagh	52	36	50.4	42.9	46.8	+ 5.9	34	0	0.12	- 0.60	*	*	*	*
CHANNEL ISLANDS	Donaghadee	54	37	50.3	41.0	45.8	+ 7.3	31	3	0.26	- 0.46	*	*	*	*
	Edgeworthstown	56	41	52.1	45.2	48.8	+ 6.7	48	0	0.03	- 0.55	12.9	- 1.1	22	- 2
	Dublin	55	37	50.7	41.6	46.3	+ 6.1	32	1	0.19	- 0.51	7.5	- 4.3	13	- 9
	Parsonstown	54	39	49.7	42.4	46.2	+ 5.0	29	0	0.18	- 0.62	*	*	*	*
	Kilkenny	52	45	51.4	47.9	49.7	+ 6.1	54	0	0.05	- 1.17	*	*	*	*
	Roche's Point	55	45	52.4	47.3	50.0	+ 5.1	56	0	0.65	- 0.74	0.9	-12.3	2	-21
CHANNEL ISLANDS	Valencia	58	43	52.8	46.2	49.6	+ 6.2	53	0	2.40	?	*	*	*	*
	Killarney	57	35	51.7	42.6	47.3	+ 6.1	37	0	0.45	?	*	*	*	*
CHANNEL ISLANDS	Foynes	53	44	50.7	44.7	47.8	+ 2.4	41	0	0.01	- 0.84	0.0	?	0	?
	Scilly (St. Mary's)	52	34	47.0	41.1	44.2	+ 2.0	19	3	0	- 0.75	6.8	-10.2	11	-17
CHANNEL ISLANDS	Jersey														

Stations marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

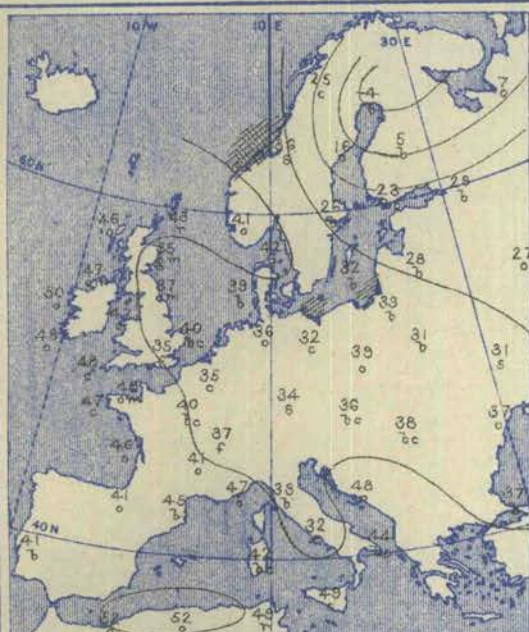
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorder are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Errata:—The percentage of Bright Sunshine for York in last week's Report should read "3"; and the Bright Sunshine values for Hillington should read "0.5," "9.7," "1," "18."

Sunday, 23rd January.

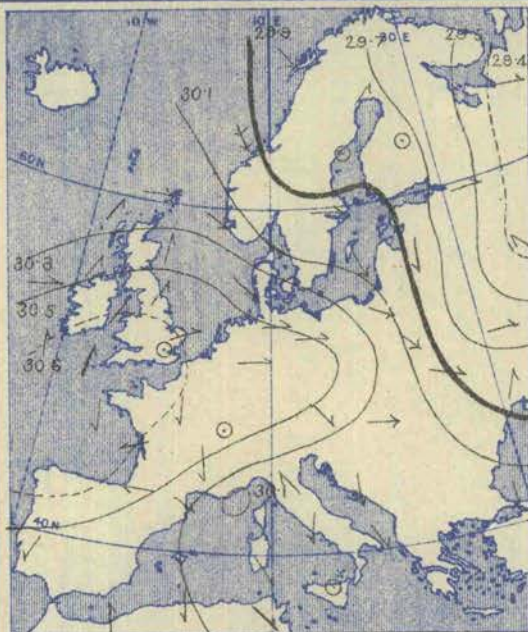
Temperature and Weather.

8 a.m.

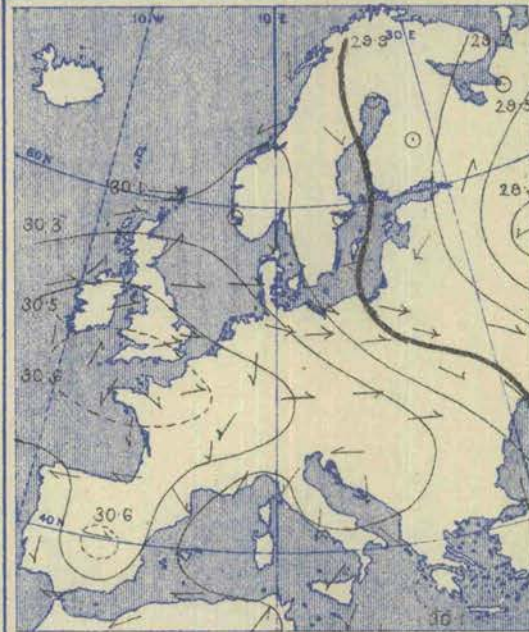


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in places, but cloudy or dull over western and central Europe as a whole, with fog over the central parts of England and France, rain at Sunburgh Head and snow at Christiansund, as well as at Munich. Fine in most of the southern countries and also over Finland and the Baltic Provinces. Dull over the central and southern parts of Russia, with snow at Moscow and Kiev. Sky clearing later in the south-east of England, but a little rain falling in the north of Scotland, as well as in many parts of Denmark, Germany, and the south of Sweden. Snow occurring at many of the Russian stations.

Temperature risen in the north of Scotland and also over the greater part of southern Europe, but fallen elsewhere. Morning readings highest, (1) 52° at Nemours, Algiers and Sfax, and 50° at Toulon and La Calle; (2) 50° at Belmullet; above 45° in the west of our Islands generally. Lowest, -4° Fahr. at Haparanda, +1° at Uleaborg and 5° at Kuopio; below the freezing point in most parts of Scandinavia and Russia, and also over central England. Rising later to 50° or a little above it at most of our own western stations; exceeding 55° in many parts of southern Europe and rising to 63° at Nice, 64° at Cagliari, and 60° at Croisette.

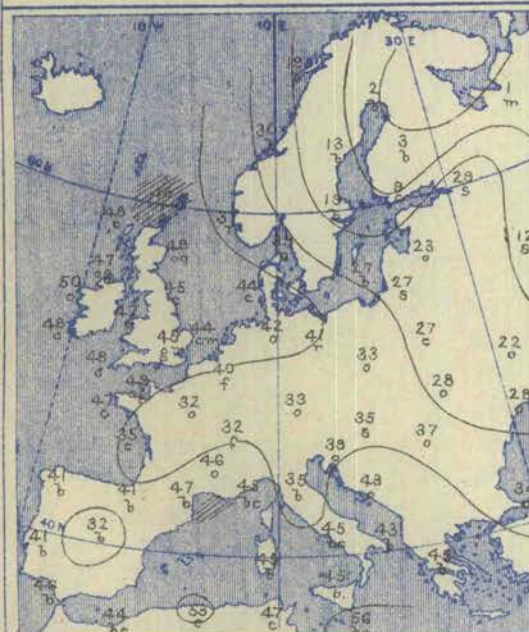
Wind light from the South-Westward or Westward in all the more northern parts of our Islands. Moderate to strong from the North-Westward over Norway, Denmark, the Baltic, Germany, and Austria, with a gale at Christiansund; light from the Southward over the central and southern parts of Russia. Light from the North-Eastward over France and the Spanish Peninsula; Northerly at most of the Italian stations. Subsequently falling light and variable on the Norwegian coasts; no important change occurring elsewhere.

Barometer highest, 30.6 ins. and upwards over the Bay of Biscay, the north of France, and the southern parts of our Islands; 30.3 ins. and upwards in an anticyclone covering the whole of western and central Europe. Lowest, 29.4 ins. and less in a large depression over the northern and central parts of Russia; 30.1 ins. and less in a small disturbance over the Gulf of Lyons. No important change occurring later, but secondary depression appearing over Poland in evening.

Monday, 24th January.

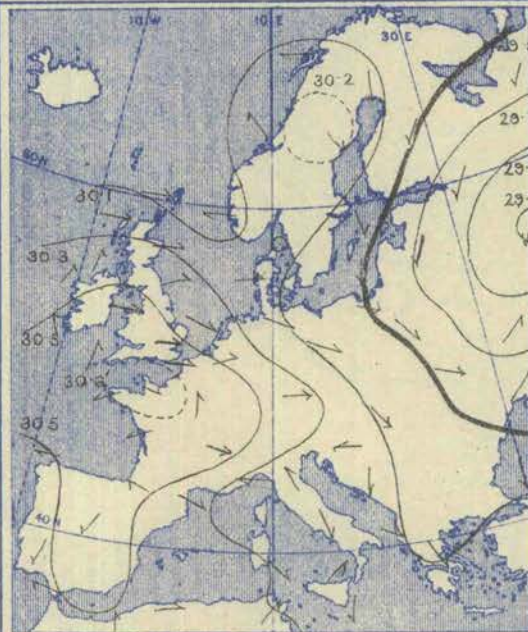
Temperature and Weather.

8 a.m.

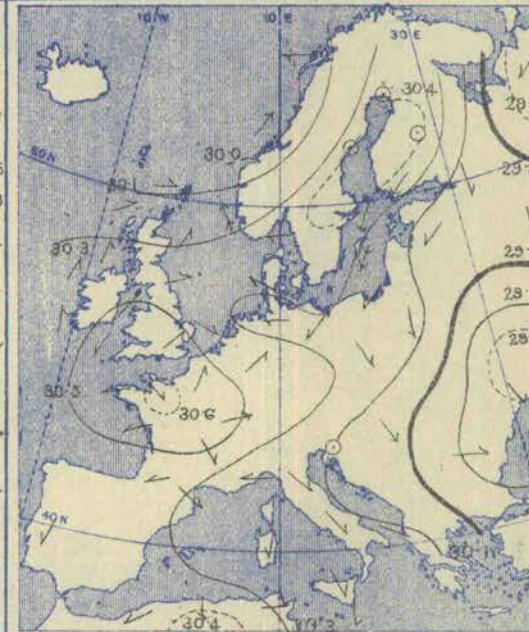


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over western and central Europe generally, with rain over eastern Germany, and snow at Swinemünde, Vienna, St. Petersburg, and Moscow. Fine over southern Europe, as well as in most parts of Scandinavia and Finland. Showers falling later in the west of Ireland, and more decided rain in the Shetlands as well as at some of the Danish and German stations; snow reported in Austria and the south of Russia.

Temperature risen in our Islands, but fallen at most of the Scandinavian stations. Morning readings highest, 56° at Malta, 53° at Algiers, and 51° at La Calle, varying between 45° and 48° in most parts of the United Kingdom. Lowest, -3° Fahr. at Uleaborg, +1° at Archangel, and 2° at Haparanda; below the freezing point over northern and eastern Europe generally. Rising later to 50° or a little above it at several of our own western and northern stations; exceeding 55° in many parts of southern Europe, and reaching 63° at Perpignan, and 64° at Palermo.

Wind light to moderate from the Southward in Ireland, and from the Westward over Great Britain, Denmark, the Netherlands, Germany and Austria; Easterly or South-Easterly in the west of Norway. Northerly over Sweden and northern Russia, but South-Westerly or Southerly in the south of Russia. Easterly or North-Easterly over the Spanish Peninsula and the west and south of France; variable in Italy; no important change occurring over western Europe during day, but Southerly gale springing up at Skudesnaes in evening.

Barometer highest, 30.6 ins. and upwards over the north of France and the western parts of the English Channel; 30.2 ins. and upwards in an anticyclone lying over the greater part of western Europe. Lowest, 29.3 ins. and less in a depression lying over central Russia; 30.0 ins. and less in a shallow disturbance to the northward of Scotland. No important change occurring over western Europe during day, but Russian depression moving southwards.

Tuesday, 25th January.

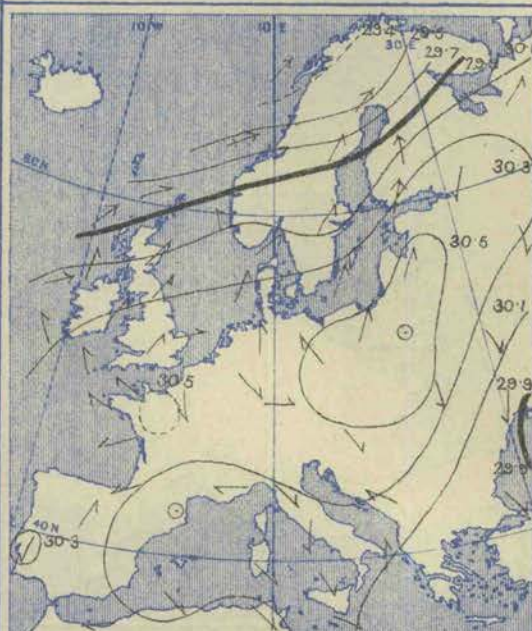
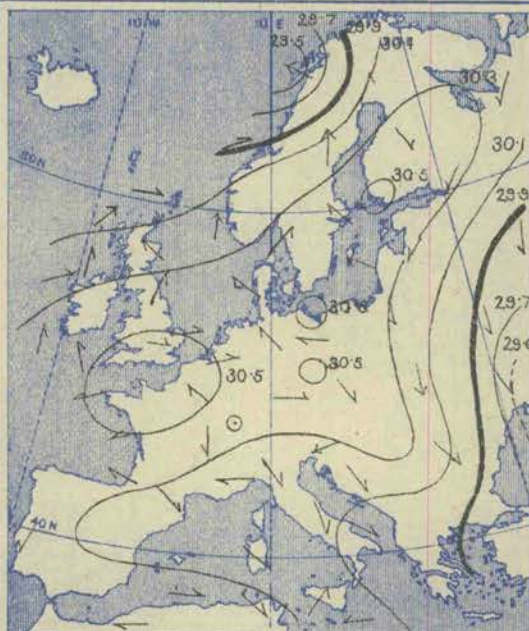
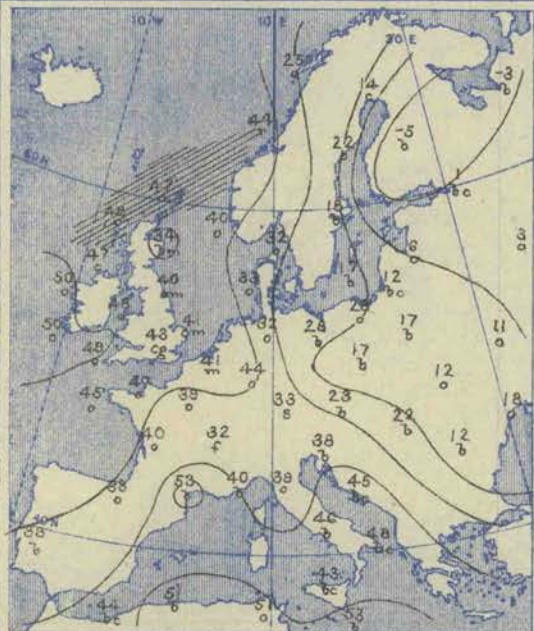
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning dull over western Europe as a whole, with snow at Bodø and Hernösand, as well as at Munich. Fine and bright in the north-east of Scotland, and also over western and northern Russia and the greater part of central and southern Europe. Sky clearing later in the east of England, but a little rain falling on our extreme north-west coasts, and larger quantities in many parts of Scandinavia, Denmark, and Germany. Snow reported in Finland.

Temperature fallen in most countries, but risen in Scandinavia and also in Italy. Morning readings highest, (1) 53° at Perpignan and Malta, and 51° at Algiers and La Calle; (2) 51° at Roche's Point, and 50° at Belmullet and Valencia (Ireland) and Pembroke; above 45° in the west and north of our Islands generally. Lowest, -5° at Kuopio, -4° at Helsingfors, and -3° at Archangel; considerably below the freezing point over the whole of Sweden, Russia, Austria, and eastern Germany. Rising during day to 50° or a little above it at many of our own western and northern stations, exceeding 55° in most parts of southern Europe, and reaching 65° at Perpignan.

Wind light to moderate from the Southward or South-Westward in all the more western and northern parts of our Islands, and strong from the same quarters at several of the Scandinavian stations. Northerly over Russia, Austria, and eastern Germany; variable in Italy; Easterly over the greater part of France; North-Easterly over the Spanish Peninsula. Subsequently increasing to a moderate gale from the Westward in the Shetlands and west of Norway, and to a strong breeze from the Southward in Finland.

Barometer highest, 30.5 ins. and upwards over the south of England, Belgium, and the northern parts of Germany and the Baltic. Lowest, 29.5 ins. and less in a depression lying off the northern parts of the Norwegian coasts, 29.6 ins. and less in another disturbance over the extreme south of Russia. No important change occurring over western Europe during day, but barometer falling generally—most in the north.

Wednesday, 26th January.

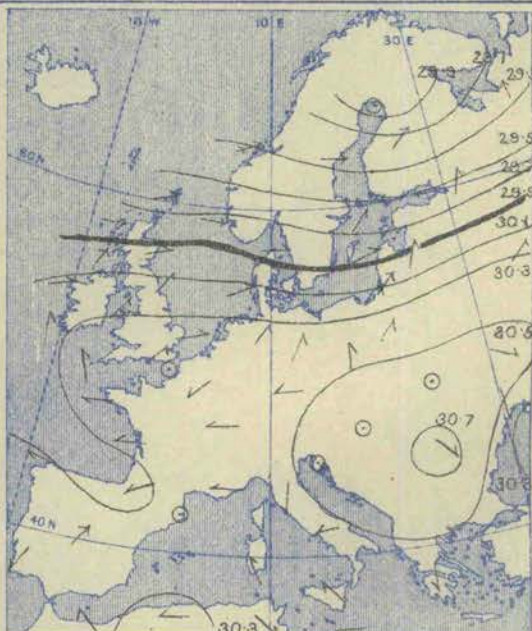
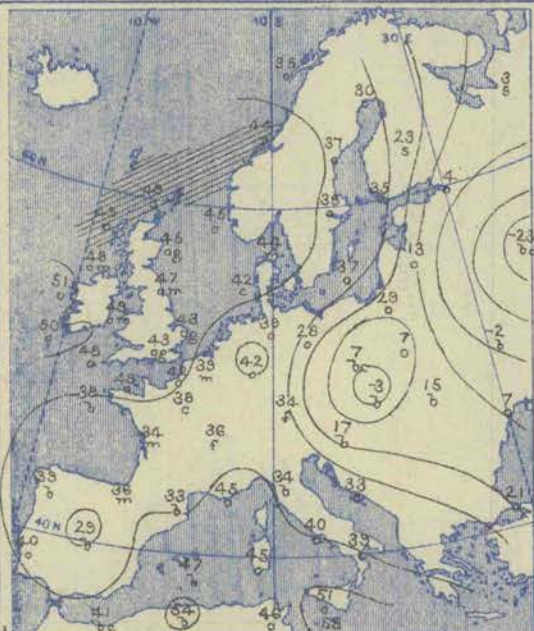
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull over western and northern Europe generally, with fog in several parts of France and south Germany, rain at Christiansund, and snow in many parts of northern Russia. Fine in most of the southern countries, as well as in Austria, Poland, and central Russia. Sky clearing partially later at some of our eastern stations, but rain falling in the extreme north of Scotland; no important change occurring elsewhere.

Temperature risen over our Islands and northern Europe generally—rapidly in Sweden and still more rapidly over Finland; fallen in most other localities. Morning readings highest, (1) 55° at Malta, 54° at Algiers, and 51° at Palermo; (2) 51° at Belmullet and Roche's Point, and 50° at Wick and Valencia (Ireland), above 45° in the west and north of our Islands generally. Lowest, -23° Fahr. at Moscow, -2° at Cracow, -2° at Kiev, and -13° at Archangel, below the freezing point over eastern and central Europe generally. Rising during day to 50° and upwards at several of our own western and northern stations, and to 57° at Nairn; remaining below 50° over the greater part of France, but exceeding 55° in Spain and the south of Italy.

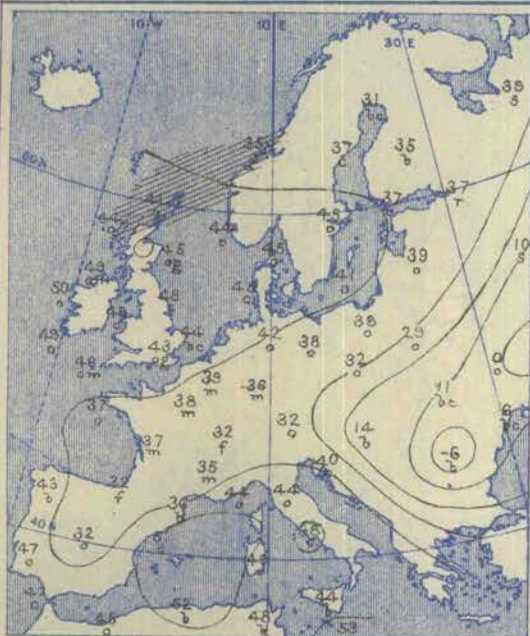
Wind South-Westerly over nearly the whole of our Islands and northern Europe, and strong to a gale in force in the north of Scotland, as well as over the west of Norway and the Gulf of Finland. Strong from the Northward in the south of Russia; calm or variable in Austria, Northerly in Italy, Easterly over the greater part of France; North-Easterly over the Spanish Peninsula. Moderating later in the north of Scotland, no important change occurring elsewhere.

Barometer highest, 30.6 ins. and upwards over Poland and the northern parts of Austria; 30.3 ins. and upwards in an anticyclone embracing all the more central and southern parts of Europe and extending over the greater part of England. Lowest, 29.1 ins. and less in a deep depression over the northern parts of Scandinavia; 30.0 ins. and less in another disturbance over the Black Sea. Depression in far north, subsequently moving eastwards; barometer rising over western Europe generally.

Thursday, 27th January.

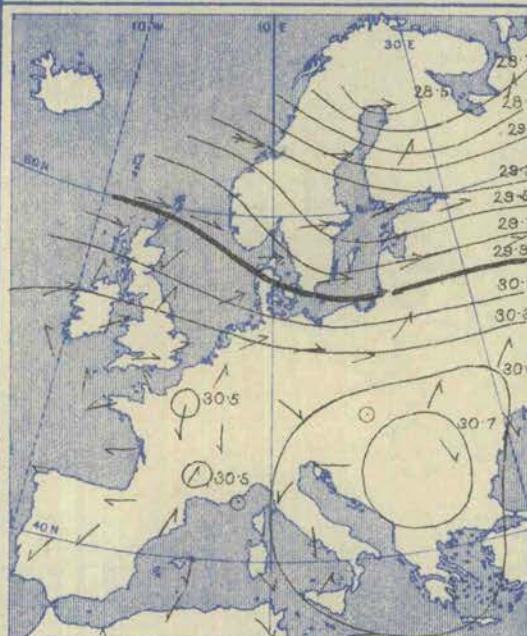
Temperature and Weather.

8 a.m.

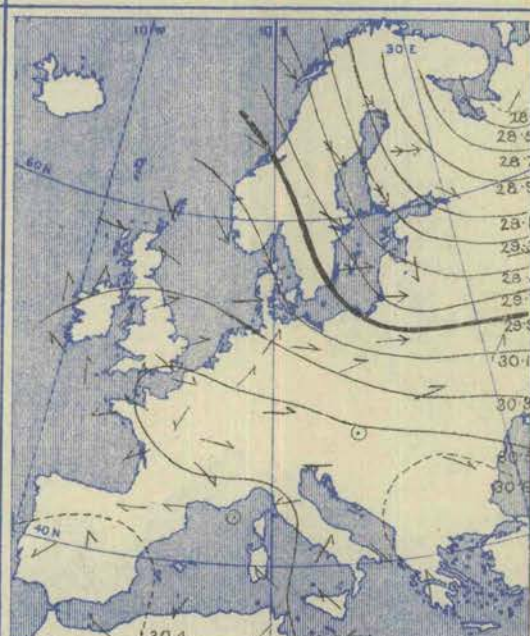


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over the greater part of our Islands and the Continent, with fog or mist at several of the French and south German stations, rain at Wick and St. Petersburg, and snow at Christiansund, Archangel, and Moscow. Fine at some stations in the north and east of England, and also in the north of Sweden, Austria, the south of Italy, and the north of Spain. A little rain falling later in the north of Scotland generally; no important change occurring elsewhere.

Temperature scarcely changed over western Europe—fallen in Norway, south Germany, Austria, and Italy, risen rapidly over northern and central Russia. Morning readings highest, (1) 53° at Malta, 52° at Algiers, and 51° at Barcelona and La Calle; (2) 52° at Nairn, and 50° at Belmullet and Roche's Point; above 45° in the west and north of our Islands generally. Lowest, -6° Fahr. at Hermanstadt, -5° at Kharkov, 0 zero at Kiev, and +3° at Odessa; below the freezing point over south Germany and some parts of central France. Rising during day to 50° and upwards at several of our own western and northern stations; exceeding 55° in Spain and southern Italy, and reaching 64° at San Fernando and Oporto.

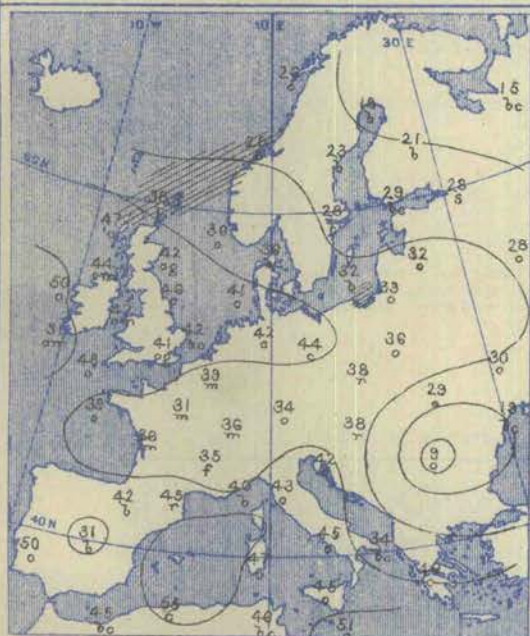
Wind light to moderate from between South and West over our Islands; fresh to strong from the Westward or South-Westward over northern and central Europe, with a gale at Christiansund. Light from the Eastward or North-Eastward over France and the Spanish Peninsula, and from the Northward in Italy; calm or variable in Austria. Subsequently veering to the North-Westward over Scandinavia and Finland, and blowing with the force of a gale in many places.

Barometer highest, 30.7 ins. and upwards over eastern Austria, 30.4 ins. and upwards in an anticyclone, covering nearly all the more central and southern parts of the Continent and extending over the south of England. Lowest, 28.5 ins. and less in a deep depression over Lapland; gradients steep over northern Europe generally. Depression subsequently moving eastwards; barometer rising briskly in Scandinavia, and less decidedly on our own extreme northern coasts.

Friday, 28th January.

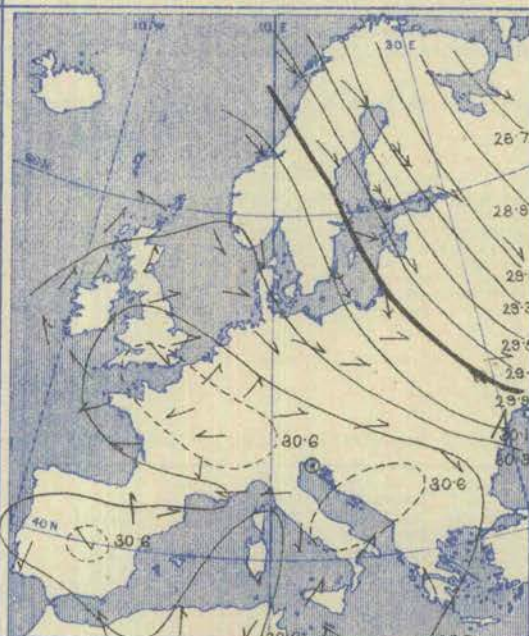
Temperature and Weather.

8 a.m.

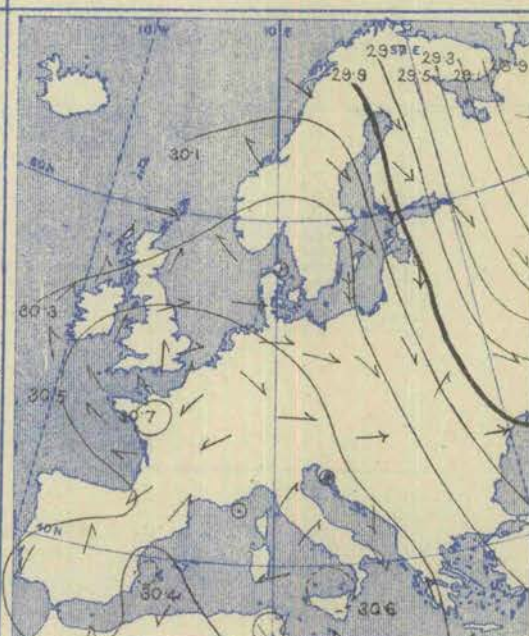


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over the greater part of Europe, with mist in several places, and rain at Breslau, Prague, and Vienna, as well as at Perpignan; snow reported at Christiansund and St. Petersburg. Fine, however, in most parts of Scandinavia and northern Russia, as well as at several of the Spanish and southern French stations. A little rain falling later in the extreme west and north of our Islands as well as in many parts of Scandinavia, Denmark, and Germany; snow reported at Archangel and Nicolaieff.

Temperature fallen in the western and northern countries, but risen elsewhere—very quickly in Austria and the south of Russia. Morning readings highest, (1) 55° at Algiers; 53° at Sanghaire, and 51° at Malta; (2) 51° at Valencia (Ireland) and 50° at Belmullet and Roche's Point, above 45° in the west and north of our Islands generally. Lowest, (1) 9° at Hermanstadt, and 10° at Nicolaieff and Odessa; (2) 15° at Archangel, 17° at Uleaborg, and 18° at Haparanda. Rising during day to 50° or slightly above it at several of our own western and northern stations, but remaining below 45° over the eastern central and southern parts of England. Exceeding 55° at many parts of southern Europe.

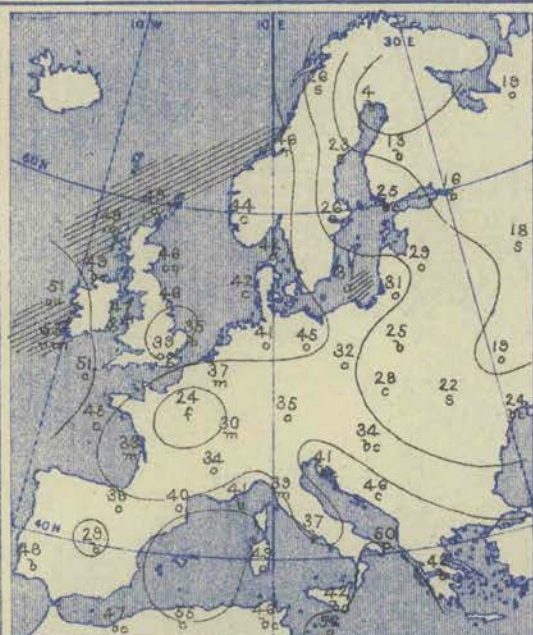
Wind light from the Eastward over France and the Channel Islands, and from between South and West over the greater part of the United Kingdom, North-Westward over Scandinavia, Denmark, the Baltic and the northern and central parts of Russia, with a gale in Finland and the south of Sweden. Westerly over Germany and Austria, South-Westerly in the south of Russia. Light and variable over Italy and the Mediterranean. Subsequently freshening a little from the Southward at some of the Irish stations, no important change occurring elsewhere.

Barometer highest, 30.6 ins. and upwards over the south-eastern parts of England, Belgium and the eastern and central parts of France; 30.2 ins. and upwards in an anticyclone covering the whole of western central and southern Europe. Lowest, 28.7 ins. and less in a depression passing eastward across the north of Russia. New disturbance beginning to appear later far to the north of our Islands.

Saturday, 29th January.

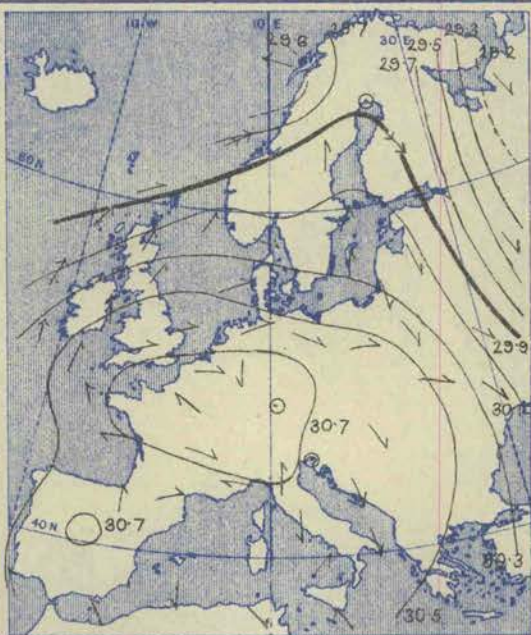
Temperature and Weather.

8 a.m.

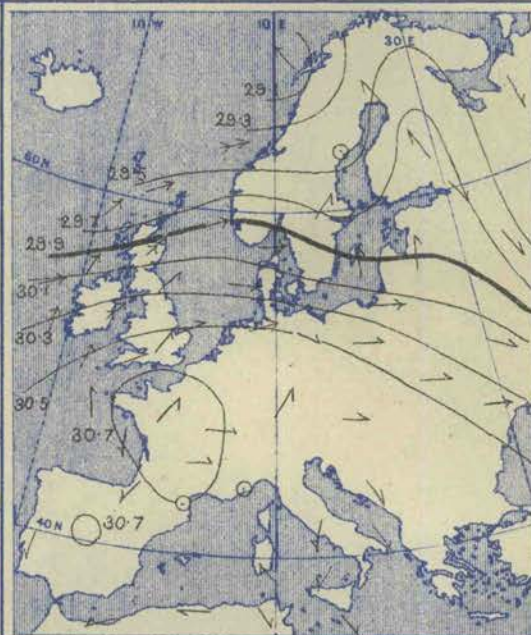


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with mist or fog in several places, rain at Valencia (Ireland) and also at Christiansund, and snow at Hernösand, Moscow and Lemberg. Fine and bright in the east of England as well as over Finland and the greater part of southern Europe. Rain falling later in the west and extreme north of our Islands generally, as well as in most parts of northern and central Europe.

Temperature risen in the west and north of our Islands, as well as in Norway, Denmark and Germany, but fallen elsewhere. Morning readings highest, (1) 55° at Algiers and 52° at Brindisi and Malta; (2) 53° at Valencia (Ireland) and 51° at Belmullet and Scilly; above 45° in the west and north of our Islands generally. Lowest, 4° at Haparanda, 7° at Uleaborg, 13° at Kuopio and 16° at St. Petersburg; below the freezing point over Sweden and Russia generally, as well as in central France. Rising during day to between 50° and 55° in most parts of our Islands and to 58° at Wick; exceeding 55° in many parts of southern Europe and reaching 66° at Cagliari.

Wind Southerly or South-Westerly over our Islands, the North Sea and the greater part of Scandinavia, fresh or strong in force in Ireland, Scotland and the west of Norway with a gale at Belmullet and Christiansund. Light to moderate from the Northward or North-Westward over Russia, Austria and Italy; variable in the south of France, Easterly or North-Easterly over the Spanish Peninsula and the Bay of Biscay. Subsequently increasing to a gale from the South-Westward on many parts of our north and north-west coasts; no important change occurring elsewhere.

Barometer highest, 30.7 ins. and upwards over the greater part of France, Switzerland and south Germany; 30.3 ins. and upwards in an anticyclone covering all the more central and southern parts of Europe, and extending over England and the greater part of Ireland. Lowest, 29.2 ins. and less in a depression passing away over northern Russia; 29.6 ins. and less in a new disturbance of considerable size and depth approaching the Norwegian coasts from the westward. Latter disturbance subsequently spreading southwards and barometer falling over north-western Europe generally.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: $\rightarrow$ = blue sky; $\circ$ = detached clouds; $\bullet$ = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

Throughout the greater part of this week the weather in all but the northern countries was influenced by a large anticyclone, the central portion of which moved at first in an easterly direction across France and the south of our Islands to eastern Europe, and afterwards in a westerly direction back to very nearly the same position it originally occupied. In the southern countries the weather was mostly fine, but elsewhere it was as a rule very cloudy, with mist or fog in many places. In the more central parts of the Continent the weather was cold (though far from severe), but in our Islands, where light breezes from the South-Westward were prevalent, the thermometer was unusually high for the time of year, maximum readings of 55° or more being reported on several occasions.

Over northern Europe the conditions were affected by large depressions, the centres of which travelled eastwards across the extreme north of Scandinavia. These disturbances occasioned frequent gales from the Westward (South-West to North-West) over Scandinavia and northern Russia, with considerable falls of rain and snow. At the close of the week the depressions were beginning to move in a more southerly track, and gales from the South-Westward were setting in over all the more northern parts of our Islands, with changeable, showery weather.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 20.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
STRATHPEPPER SPA	9.5	+ 1.7	18	+ 3	WATERGATE (Emsworth)	4.1	?	7	?
EDINBURGH	8.7	0.0	16	0	BRIGHTON	4.3	- 7.7	7	- 14
MORPETH	11.7	?	21	?	EASTBOURNE	6.0	- 7.0	10	- 11
NEWCASTLE-ON-TYNE	5.9	?	10	?	VENTNOR HOSPITAL	0.8	?	1	?
OSWALDKIRK (Yorkshire)	13.0	+ 3.1	22	+ 5	SOUTHPORT	5.7	?	10	?
SHEFFIELD	8.2	?	14	?	COLWYN BAY	5.0	?	8	?
WORKSOP	2.6	- 6.9	4	- 12	TENBY	3.0*	- 11.0	5*	- 19
THURCASTON (Leicestershire)	0.5	- 9.3	1	- 16	NEWQUAY	4.5	- 8.7	7	- 14
PLUMSTEAD COMMON	0.6	?	1	?	TORQUAY	1.1*	- 12.9	2*	- 21
MARGATE	3.9	- 7.3	6	- 12	GUERNSEY	1.3*	- 11.1	2*	- 19
WESTBOURNE (Emsworth)	4.5*	- 8.5	7*	- 16					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

VOL. XV. No. 5.]
Third Series.

WEEK ENDING SATURDAY, FEBRUARY 5TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 26.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	54	23	44.9	35.6	40.3	2 above	Day-deg. 8	Day-deg. + 1	Day-deg. 25	Day-deg. -17	Day-deg. 86	Day-deg. + 55	Day-deg. 75	Day-deg. -138
	1. SCOTLAND, EAST	57	25	46.3	35.9	41.1	4 above	12	+ 4	24	-21	102	+ 66	82	-141
	2. ENGLAND, N. E.	60	29	49.1	38.1	43.6	5 above	28	+21	11	-29	131	+100	52	-152
	3. ENGLAND, EAST	61	28	48.4	36.9	42.7	5 above	26	+18	14	-32	86	+ 52	85	-151
	4. MIDLAND COUNTIES	59	28	48.7	37.9	43.3	5 above	26	+16	11	-35	106	+ 63	69	-165
5. ENGLAND, SOUTH	56	29	49.1	39.6	44.4	5 above	27	+17	7	-30	114	+ 65	25	-166	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	55	27	47.0	39.3	43.2	4 above	20	+10	8	-24	128	+ 81	21	-140
	7. ENGLAND, N.W.	59	29	48.8	39.8	44.3	4 above	25	+17	6	-28	119	+ 81	18	-153
	8. ENGLAND, S.W.	55	23	50.1	40.8	45.5	4 above	30	+15	3	-24	147	+ 78	17	-121
	9. IRELAND, NORTH	56	28	49.1	38.7	43.8	3 above	26	+13	9	-18	136	+ 75	25	-116
	10. IRELAND, SOUTH	61	29	51.7	40.7	46.2	4 above	35	+15	4	-17	197	+105	10	-102
	—CHANNEL ISLANDS	54	39	51.7	43.8	47.8	4 above	41	+21	0	-13	192	+ 88	4	- 59

DISTRICTS. (See p. 26.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Hours recorded.	Difference from Mean.	Percent-age of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percent-age of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	10ths of in. 21	10ths of in. 9 more	32	+ 5	8.1	+ 1.9	9	+ 1	16	+ 1	34	+ 4	13	+ 2	
	1. SCOTLAND, EAST	6	6	1 less	19	- 1	1.8	- 1.4	18	+ 7	30	+10	44	0	17	0	
	2. ENGLAND, N.E.	5	4	0 (average)	14	- 5	1.2	- 1.0	18	+ 8	29	+12	47	0	17	0	
	3. ENGLAND, EAST	5	6	1 more	13	- 7	1.4	- 0.9	21	+ 8	34	+12	42	-15	15	- 5	
	4. MIDLAND COUNTIES	5	5	1 less	12	- 7	1.1	- 1.7	14	+ 3	23	+ 4	40	-13	14	- 4	
5. ENGLAND, SOUTH	5	4	2 less	11	- 8	0.9	- 2.2	17	+ 5	27	+ 8	45	- 9	16	- 3		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	16	3 more	25	+ 2	4.8	- 1.5	10	+ 2	17	+ 3	28	-11	12	- 4	
	7. ENGLAND, N.W.	7	13	6 more	21	0	4.2	+ 0.7	12	0	19	0	35	- 9	14	- 3	
	8. ENGLAND, S.W.	7	8	1 less	18	- 4	2.5	- 1.9	13	- 2	20	- 3	48	-15	16	- 6	
	9. IRELAND, NORTH	7	14	6 more	22	- 2	3.4	- 0.7	5	- 7	9	-12	25	-27	9	-10	
	10. IRELAND, SOUTH	6	7	2 less	18	- 4	3.4	- 1.2	7	- 7	11	-12	38	-26	14	- 9	
	— CHANNEL ISLANDS	7	5	3 less	19	- 5	1.2	- 2.7	16	+ 2	25	+ 2	73	+11	27	+ 3	

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period underwent a considerable change. At first it was extremely mild, with rain in the more northern and north-western districts, but with generally dry conditions in the south and south-east. Later in the week, however, rough, cold weather set in, and squalls of wind and cold rain, hail or sleet extended from the north to all parts of the Kingdom.

Temperature was very high during the earlier part of the period, but subsequently fell very quickly. The averages for the whole week were, however, again above the mean, the excess ranging from 2° in Scotland N., to 5° over the greater part of England. The absolute maxima were recorded between January 30th and February 1st, and were very high for the time of year. In England E. (at Gildesdon on Tuesday), and in Ireland S. (at Dublin on Sunday) the thermometer rose to 61°, and in England N.E. (at Shields and Durham) to 60°. Elsewhere the maxima ranged from 59° in the Midland Counties and England N.W. to 54° in Scotland N. and the Channel Islands. Towards the end of the week the daily maxima were low, in many instances less than 40°. The lowest of the minima were registered, as a rule, on the 5th, and ranged from 23° in England S.W. and Scotland N., and 25° in Scotland E., to 29° in England N.E., N.W. and S., and Ireland S., and to 39° in the Channel Islands.

Rainfall was much more than the mean in Scotland N., England N.W., and Ireland N., and slightly in excess in England E., and Scotland W. In England N.E. the mean was just equalled, but in all other districts the fall was again less than the normal.

Bright Sunshine exceeded the mean over Scotland and in nearly all the English districts, but over Ireland and in England S.W. there was a deficiency. The percentage of the possible duration ranged from 34 in England E., and 30 in Scotland E., to 17 in Scotland W., 16 in Scotland N., 11 in Ireland S., and 9 in Ireland N.

Barometer and Wind.—The distribution of pressure continued anticyclonic over our southern counties during the earlier days of the week, but later on the series of large and deep depressions which had previously been skirting our northern coasts and moving eastwards across Scandinavia, commenced to move in a south-easterly direction, while their secondary systems passed south-eastwards over our Islands or the North Sea. The wind, which had previously been fresh to strong from the South-Westward or Westward, consequently shifted to the North-Westward, and increased greatly in force, blowing a violent gale at the northern and western stations, and a moderate or fresh gale in most other parts of the Kingdom.

II.—DATA from which the SUMMARY on page 25 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	50	28	43.0	36.0	39.5	+ 0.7	3	22	6	Inches. 1.21	Inches. + 0.38	*	*	*	*
	Stornoway	53	28	43.9	36.6	40.3	+ 1.4	5	21	7	1.51	+ 0.46	7.7	- 2.3	14	- 3
	Wick	53	24	44.4	34.6	39.5	+ 1.6	7	28	7	0.43	- 0.07	*	*	*	*
	Lairg	53	23	45.1	32.7	38.9	+ 2.3	9	35	7	1.61	+ 0.81	*	*	*	*
	Glencarron	53	23	45.2	34.7	40.0	+ 3.0	9	28	7	4.00	+ 1.90	*	*	*	*
	Fort Augustus	53	27	46.3	35.9	41.1	+ 3.0	12	24	7	2.35	+ 1.39	9.3	+ 4.1	16	+ 6
1. SCOTLAND, E.	Fort William	54	31	46.3	38.7	42.5	+ 4.0	17	9	6	3.38	+ 1.32	9.0	+ 0.3	16	0
	Nairn	54	27	45.7	35.7	40.7	+ 3.3	10	25	7	0.66	+ 0.27	*	*	*	*
	Aberdeen	56	28	45.7	36.9	41.3	+ 3.6	10	20	6	0.66	+ 0.06	24.6	+ 10.4	42	+ 17
	Braemar	52	25	42.5	33.1	37.8	+ 3.4	1	32	7	0.99	+ 0.26	16.5†	+ 7.0†	28†	+ 12†
	Ochertyre	55	30	47.6	34.3	41.0	+ 4.3	16	31	6	0.54	- 0.51	*	*	*	*
	Leith	57	31	49.6	37.7	43.7	+ 4.7	30	12	3	0.20	- 0.27	*	*	*	*
2. ENGLAND, N.E.	Marchmont	57	31	46.4	37.9	42.2	+ 5.4	19	11	5	0.30	- 0.37	14.8	+ 3.1	25	+ 4
	Alnwick Castle	56	30	52.9	38.7	45.8	+ 7.8	39	9	4	0.24	- 0.31	*	*	*	*
	Durham	60	29	48.8	37.3	43.1	+ 5.4	27	13	5	0.20	- 0.25	19.5	+ 7.0	33	+ 11
	Shields	60	30	48.9	37.9	43.4	+ 4.4	27	11	4	0.17	- 0.29	*	*	*	*
	Scarborough	56	31	49.2	37.8	43.5	+ 4.5	28	12	4	0.65	+ 0.17	20.0	?	33	?
	York	58	30	48.4	38.0	43.2	+ 4.7	25	11	7	0.46	- 0.01	17.6	+ 7.6	29	+ 13
3. ENGLAND, E.	Spurn Head	55	31	46.6	38.7	42.7	+ 3.8	19	9	6	0.84	+ 0.47	*	*	*	*
	Hillington	57	32	49.1	37.5	43.3	+ 5.1	28	13	4	0.63	+ 0.14	19.8	+ 6.4	32	+ 10
	Yarmouth	58	32	46.7	36.6	41.7	+ 3.8	13	23	6	0.36	+ 0.47	*	*	*	*
	Geldeston	61	32	50.3	37.6	44.0	+ 5.2	32	12	6	0.84	+ 0.42	22.7	+ 8.6	36	+ 13
	Cambridge	58	28	48.9	36.0	42.5	+ 4.0	29	17	3	0.22	- 0.18	23.4	+ 9.7	37	+ 15
	Rothamsted	56	29	47.2	37.0	42.1	+ 4.3	22	14	6	0.44	- 0.14	18.6	+ 6.1	30	+ 10
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	57	29	49.0	38.3	43.7	+ 5.4	27	10	2	0.11	- 0.34	*	*	*	*
	Loughborough	58	29	48.6	38.4	43.5	+ 4.9	26	10	5	0.40	- 0.09	*	*	*	*
	Stamford (Duddington)	56	30	47.6	37.6	42.6	+ 4.6	23	12	4	0.19	- 0.30	*	*	*	*
	Cheadle	56	28	48.9	37.3	43.1	+ 5.9	27	13	6	1.07	- 0.39	*	*	*	*
	Shirley (near Solihull)	57	30	47.6	37.2	42.4	+ 4.6	23	13	7	0.62	?	*	*	*	*
	Churchstoke	57	30	47.6	37.2	42.4	+ 4.6	23	13	7	0.62	?	*	*	*	*
5. ENGLAND, S.	Hereford	59	29	51.5	38.0	44.8	+ 5.6	36	11	5	0.33	- 0.27	*	*	*	*
	Cirencester	54	30	48.1	37.7	42.9	+ 4.9	24	12	6	0.41	- 0.29	16.9	+ 3.6	27	+ 5
	Oxford	55	31	48.4	38.7	43.6	+ 4.6	25	9	5	0.52	0.00	18.0	+ 5.5	29	+ 8
	London	56	32	49.3	40.0	44.7	+ 4.9	27	6	5	0.34	- 0.15	12.5†	+ 5.7†	20†	+ 8†
	North Foreland	55	32	47.3	39.3	43.3	+ 3.9	20	8	3	0.40	?	*	*	*	*
	Dungeness	56	30	49.0	40.0	44.5	+ 4.7	26	6	6	0.24	- 0.36	*	*	*	*
6. SCOTLAND W	Hastings (St. Leonards)	55	32	48.6	38.3	43.5	+ 3.7	26	10	6	0.44	- 0.18	19.7	+ 4.1	31	+ 6
	Southampton	56	30	51.3	40.0	45.7	+ 5.3	34	6	5	0.39	- 0.34	16.8	+ 2.1	27	+ 4
	Hurst Castle	52	31	50.0	41.9	46.0	+ 5.1	28	0	5	0.21	- 0.44	*	*	*	*
	Shaftesbury	53	29	48.2	37.8	43.0	+ 5.2	25	12	6	0.69	+ 0.01	*	*	*	*
	Laudale (Loch Sunart)	55	32	47.0	39.9	43.5	+ 3.5	19	6	6	1.91	0.00	*	*	*	*
	Glasgow	53	31	45.7	39.0	42.4	+ 3.5	15	8	6	1.16	+ 0.23	13.6	+ 6.2	23	+ 11
7. ENGLAND, N.W.	Ardrossan	52	33	46.6	40.3	43.5	+ 3.3	18	5	6	0.80	- 0.17	*	*	*	*
	Glenlee	54	27	47.2	38.4	42.8	+ 5.5	21	10	6	2.72	+ 1.22	*	*	*	*
	Gilerux (Cumberland)	53	29	46.3	38.6	42.5	+ 4.5	18	10	6	1.41	?	7.3	?	12	?
	Douglas (Isle of Man)	55	30	49.4	39.4	44.4	+ 3.6	28	7	6	1.34	+ 0.34	9.7	- 3.6	16	- 6
	Stonyhurst	53	31	47.3	38.5	42.9	+ 4.4	21	10	6	2.56	+ 1.58	10.7	+ 0.4	18	+ 1
	Blackpool	52	32	47.7	39.8	43.8	+ 4.7	22	6	6	0.74	+ 0.05	13.0	+ 2.5	21	+ 3
8. ENGLAND, S.W.	Manchester (Prestwich)	57	29	48.6	38.6	43.6	+ 5.1	25	10	7	1.57	+ 0.89	9.2	?	15	?
	Liverpool Obsy. (Bidston)	59	32	49.7	40.0	44.9	+ 5.1	29	6	7	0.70	+ 0.20	*	*	*	*
	Llandudno	58	34	51.4	41.3	46.4	+ 4.7	34	2	7	1.04	+ 0.42	13.6	+ 1.6	22	+ 1
	Holyhead	53	35	48.3	40.4	44.4	+ 2.1	24	4	7	0.88	+ 0.18	*	*	*	*
	Llandovery	53	23	49.9	37.6	43.8	+ 5.9	31	12	7	1.77	+ 0.63	*	*	*	*
	Pembroke	52	34	49.4	43.1	46.3	+ 4.3	30	0	7	0.49	- 0.34	10.1	- 4.4	16	- 8
9. IRELAND, N.	Clifton	51	33	48.7	38.9	43.8	+ 3.4	26	9	7	1.18	+ 0.28	*	*	*	*
	Arlington (N. Devon)	55	30	51.5	40.0	45.8	+ 5.6	35	6	7	0.65	+ 0.05	13.6	+ 1.3	22	+ 3
	Cullompton	54	38	50.9	44.3	47.6	+ 3.7	39	0	6	0.66	- 0.34	14.2	- 1.1	22	- 1
	Falmouth	54	32	50.6	41.6	46.1	+ 3.7	30	1	7	0.41	- 0.45	10.7	- 3.5	17	- 6
	Plymouth	52	31	49.6	40.1	44.9	+ 2.7	28	5	7	0.42	- 0.18	*	*	*	*
	Prawle Point	54	32	47.7	39.9	43.8	+ 2.0	21	6	7	1.33	?	*	*	*	*
10. IRELAND, S.	Malin Head	54	33	48.7	38.4	43.6	+ 2.8	26	10	7	1.46	+ 0.57	*	*	*	*
	Londonderry	55	29	49.1	36.4	42.8	+ 4.3	29	16	7	1.51	+ 0.73	*	*	*	*
	Edenfel (Omagh)	54	35	50.4	40.6	45.5	+ 2.3	30	4	7	1.79	+ 0.59	*	*	*	*
	Belmullet	56	31	50.2	39.0	44.6	+ 4.4	31	8	7	1.66	+ 0.96	3.4	- 8.4	6	- 15
	Markree Castle	55	28	49.1	36.7	42.9	+ 3.1	29	15	7	0.86	+ 0.35	7.0	- 5.0	11	- 9
	Armagh	56	34	48.3	39.0	43.7	+ 2.7	25	8	7	1.01	+ 0.31	*	*	*	*
CHANNEL ISLANDS	Donaghadee	56	34	48.3	39.0	43.7	+ 2.7	25	8	7	1.01	+ 0.31	*	*	*	*
	Edgeworthstown	56	34	48.3	39.0	43.7	+ 2.7	25	8	7	1.01	+ 0.31	*	*	*	*
	Dublin	61	31	52.4	40.4	46.4	+ 4.2	38	4	7	0.47	- 0.11	12.4	- 2.7	20	- 4
	Parsonstown	57	30	50.7	38.7	44.7	+ 3.9	33	9	7	0.50	- 0.18	4.2	- 9.4	7	- 15
	Kilkenny	59	29	51.4	39.0	45.2	+ 3.8	35	8	6	0.38	- 0.40	*	*	*	*
	Roche's Point	55	37	50.3	42.9	46.6	+ 2.8	32	0	5	0.44	- 0.75	*	*	*	*
CHANNEL ISLANDS	Valencia	55	37	51.9	43.1	47.5	+ 2.5	39	0	7	1.03	- 0.30	3.2	- 11.0	5	- 18
	Killarney	58	33	53.9	40.6	47.3	+ 4.1	43	4	6	1.03	?	*	*	*	*
	Foynes	57	35	51.0	40.0	45.5	+ 4.1	33	6	6	1.36	?	*	*	*	*
	Scilly (St. Mary's)	54	39	52.0	44.6	48.3	+ 3.1	44	0	7	0.38	- 0.43	12.1	?	19	?
	Jersey	54	39	51.3	43.0	47.2	+ 4.5	36	0	6	0.62	- 0.09	17.1	- 1.7	26	- 3

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

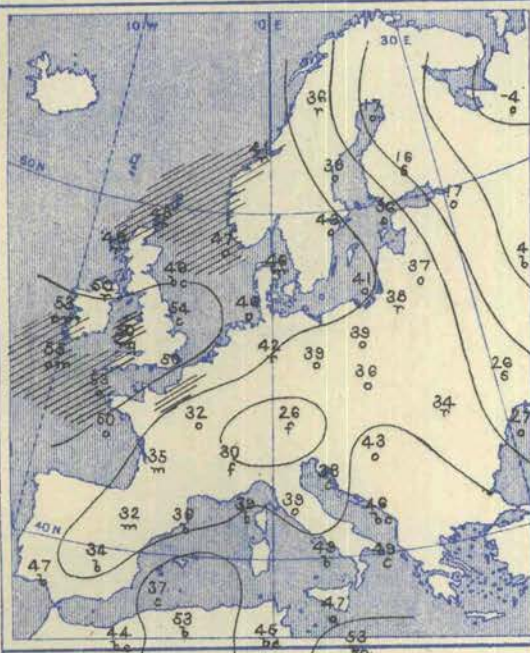
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorder are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 30th January.

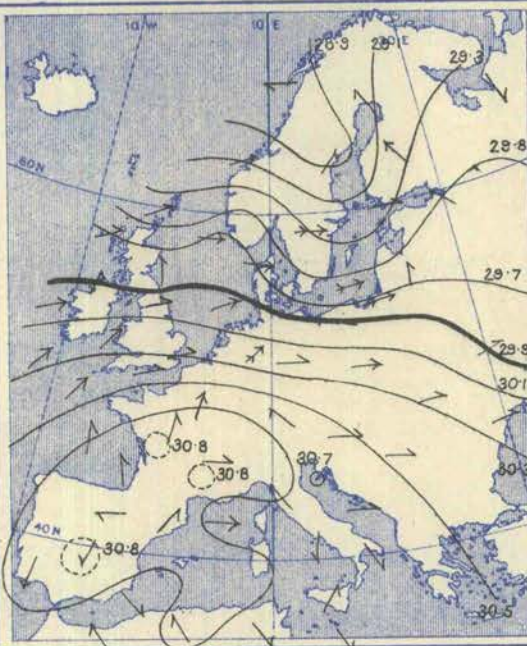
Temperature and Weather.

8 a.m.

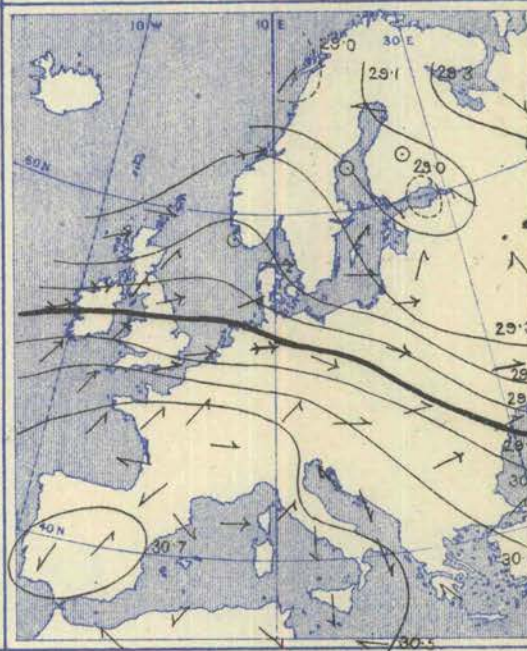


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the Mediterranean and several parts of southern Europe, but foggy over France and south Germany; dull and unsettled over the central, northern, and north-western countries, with rain in many parts of the British Islands, Germany, Austria, and Scandinavia, snow in the south of Russia. Some rain later in almost all parts of our Islands and several parts of western and central Europe (much at Utrecht), snow in Russia and Poland.

Temperature risen over the British Islands, and high for the time of year. Morning readings considerably above 50° over Ireland and England, and exceeding 40° over the North Sea and western Germany. Lowest, (1) -4° Fahr. at Archangel, +4° at Moscow, 17° at St. Petersburg and Haparanda, 26° at Kiev; (2) 26° at Munich, 32° at Paris, 34° at Brussels. Rising later to between 55° and 58° over the eastern and north-eastern parts of Great Britain, to 49° at Paris, 60° at Gap, 66° at Cagliari, 72° at La Calle.

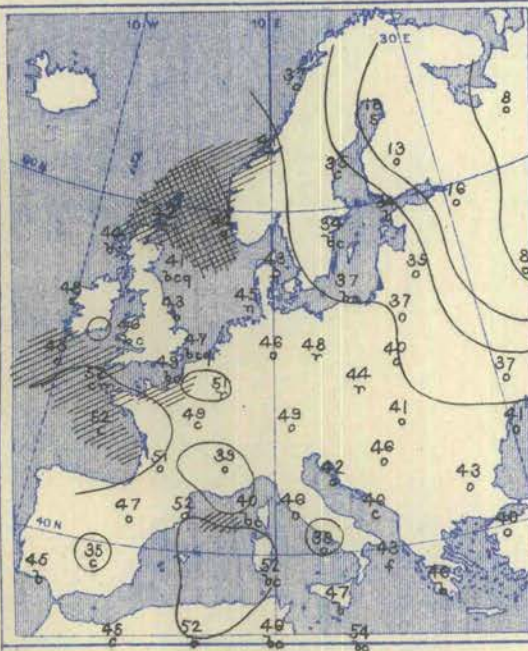
Wind light and anticyclonic over Spain and the southern half of France; Westerly over the northern countries, and blowing a gale at many of the Scandinavian, German, and Baltic stations; South-Westerly and strong over the western parts of the British Islands. Rising to a gale in the north-west of our Islands later; not much change elsewhere beyond an increase in the force of the Westerly gale over Germany.

Barometer highest, 30.88 ins. at Madrid, and exceeding 30.6 ins. all over Spain, France, and the Mediterranean. Lowest, below 29.5 ins. over many of the northern parts of Sweden and Norway, and below 29.5 ins. over the Shetlands. Falling decidedly, but unsteadily, over our Islands later; fresh disturbance appearing in the north-west of Norway.

Monday, 31st January.

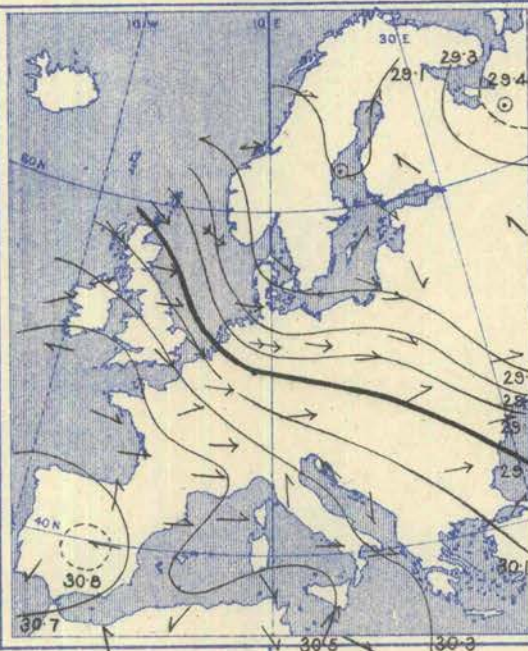
Temperature and Weather.

8 a.m.

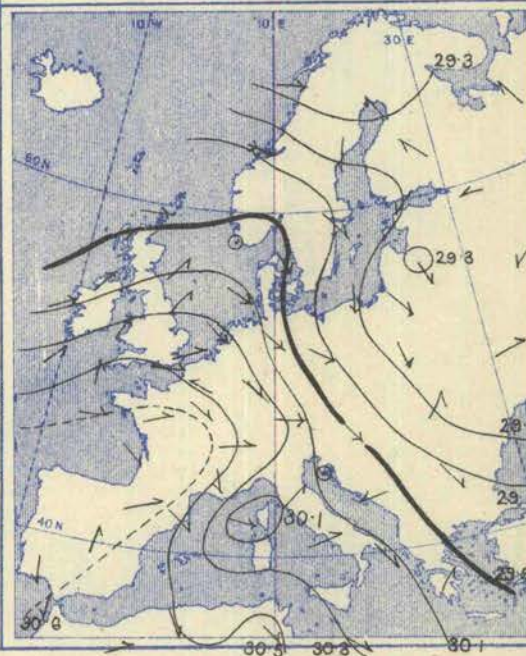


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning temporarily fine over Great Britain and the east of Ireland, but as a whole dull and unsettled elsewhere, with snow at Haparanda, rain over Norway, Denmark, and central Europe, as well as at Lorient; fog at Brindisi. Becoming dull and rather more rainy over the British Islands and the neighbourhood later, and continuing rainy over Germany. Solar halo and parheliion seen at Oxford, and much cirrus cloud coming from north-west in London.

Temperature fallen decidedly over the British Islands, risen rapidly over France, central, and eastern Europe. Morning readings highest, 53° at Cape Gris Nez, 52° at Jersey, Brest, and Scilly, 49° in London, 48° at Beaulieu. Lowest, (1) 8° at Moscow, 13° at Kuopio, 16° at St. Petersburg, 34° at Hangö and at Kharkov; (2) 35° at Madrid. Rising quickly over the British Isles and north-western Europe later, and remaining very high for the time of year.

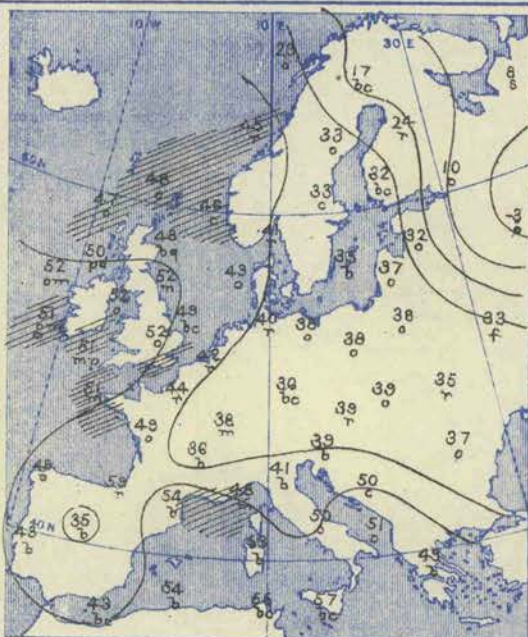
Wind (1) cyclonic, but light, over the greater part of northern Europe and Russia; (2) strong to a gale from the North-Westward over the northern and eastern parts of the British Islands and the North Sea, and from West over Germany and central Europe; (3) light and anticyclonic over Spain and the south-west of France. Backing to South-West over the British Islands later, and becoming strong to a gale in Ireland and Scotland.

Barometer highest, 30.8 ins. and more to 30.6 ins. over Spain and the south-west of France. Lowest, below 29.1 ins. over Lapland and the north of Sweden. Gradients very steep over the North Sea, and steep over central Europe. Rising rapidly during the day over the Baltic, Scandinavia, Germany, and France, but falling fast again over Ireland and Scotland.

Tuesday, 1st February.

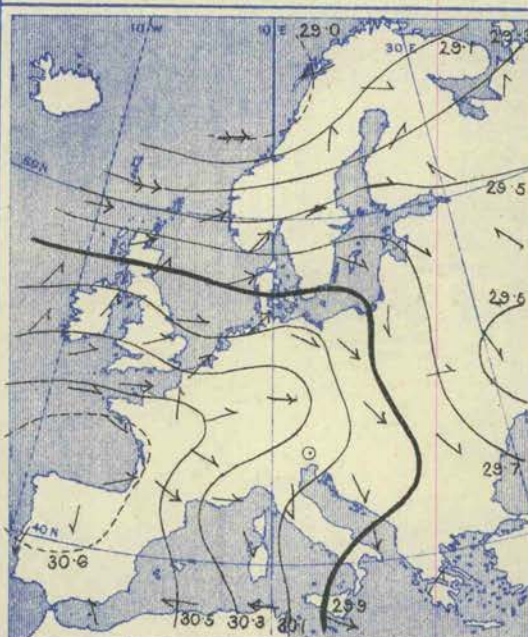
Temperature and Weather.

8 a.m.

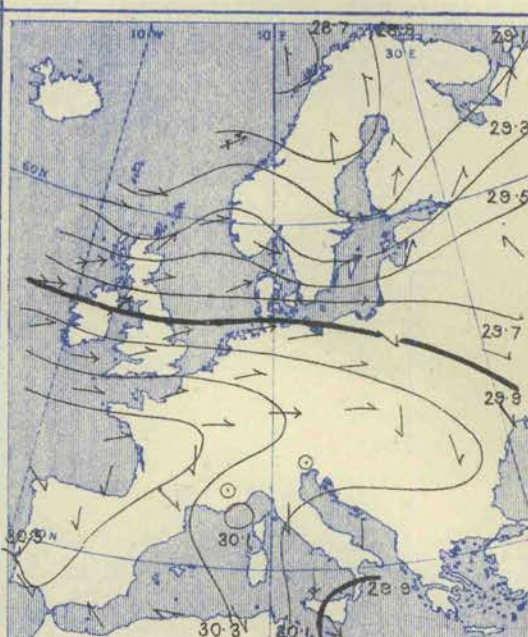


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over southern Europe and the Mediterranean as a whole; changeable and unsettled over all the northern countries, with rain in many localities, snow at Archangel; rain falling later over the greater part of our Islands and western Europe, amounts being considerable at Christiansund, Stornoway, and Cuxhaven.

Temperature risen generally over the United Kingdom, fallen over the Continent. Morning readings highest, 54° to 50° over Ireland, England, and the north-west of France. Lowest, -3° Fahr. at Moscow, +8° at Archangel, 10° at St. Petersburg, 17° at Haparanda, and 20° at Bodö; rather below 40° over central Europe as a whole. Rising to between 55° and 60° in many parts of Great Britain during the day, and to 50° as far north as Wick.

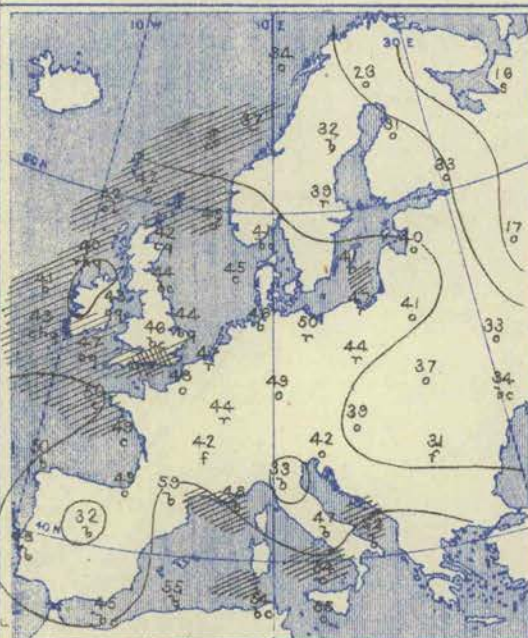
Wind (1) light and anticyclonic over France, Italy, and Spain; (2) Northerly over many parts of the Mediterranean and central Europe; (3) Westerly to Southerly over the northern and north-western countries, and blowing hard on the Norwegian coast and in the extreme north of Scotland. Strong gales from South-West and West setting in on our northern coasts later, and spreading Southwards over the Irish Sea and St. George's Channel.

Barometer highest, 30.6 ins. and more to 30.4 ins. in an anticyclone covering Spain, the Bay of Biscay, France, and the western parts of the Channel. Lowest, (1) below 29.0 ins. off the north-west coast of Norway; (2) below 29.5 ins. over the south of Russia; (3) below 29.0 ins. over Malta and the south of Italy. Falling very fast in the north of our Islands later as a depression approached Scotland from the westward.

Wednesday, 2nd February.

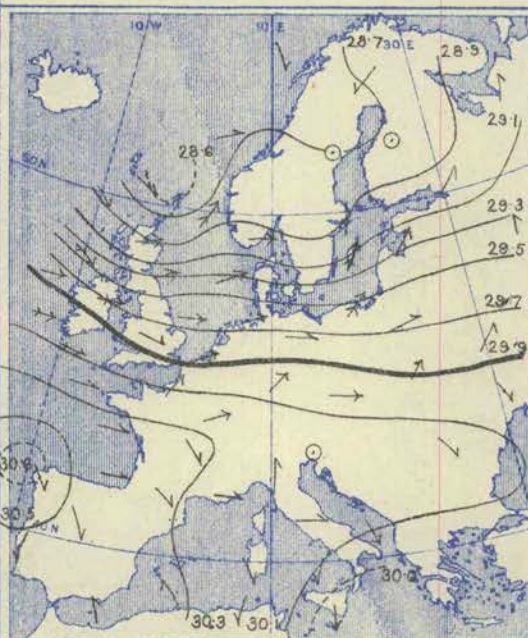
Temperature and Weather.

8 a.m.

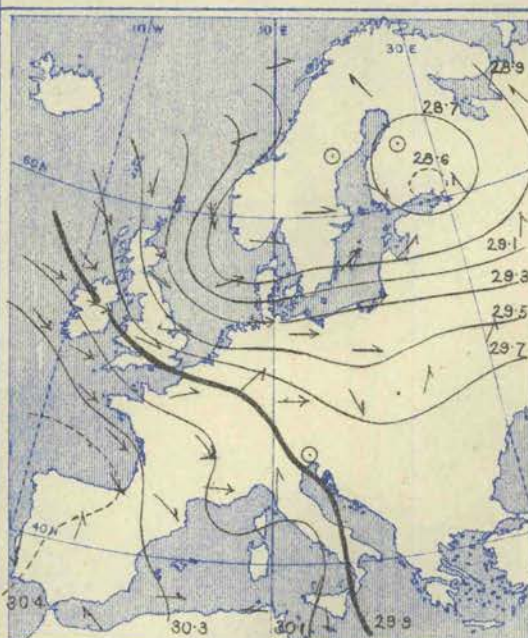


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and quiet over the Mediterranean and the extreme south of Europe; temporarily fine over the greater part of England and in Holland; very rough over the northern and north-western countries generally, with rain in many places; sleet and hail at many of our western stations; lightning at Stornoway. Sleet, soft hail or cold rain falling later, except at some of the western stations, but with considerable bright intervals in many parts of England.

Temperature falling fast over the British Islands and north-western Europe, rising fast over Germany. Morning readings highest, 50° to 55° on the southern and western sides of the Mediterranean, 51° at Wiesbaden, 50° both at Berlin and Brest. Lowest, 16° at Archangel, 17° at Moscow, 23° at Haparanda, 31° at Kuopio. Falling decidedly, but unsteadily, over the north-western countries later—frost occurring on the grass over the British Isles at night.

Wind light and variable over the south-western, southern and south-eastern countries; much stronger and cyclonic over the northern half of Europe. Blowing a hard gale from North-West and West on our own western coasts, and a moderate gale over the North Sea and the Baltic. The gale becoming more severe over the North Sea later, and continuing to blow very hard on our western coasts.

Barometer highest, 30.6 ins. to 30.2 ins. in an anticyclone of irregular form, covering Spain and the south-western half of France, with all adjacent parts of the Atlantic, and exceeding 30.1 ins. over nearly the whole of southern Europe, including Hungary. Lowest, below 28.7 ins. over the northern parts of Scandinavia, and below 28.6 ins. over the Shetland Islands. Rising very rapidly over our northern districts later; falling fast over the southern parts of Norway and Sweden.

Thursday, 3rd February.

Temperature and Weather.

8 a.m.

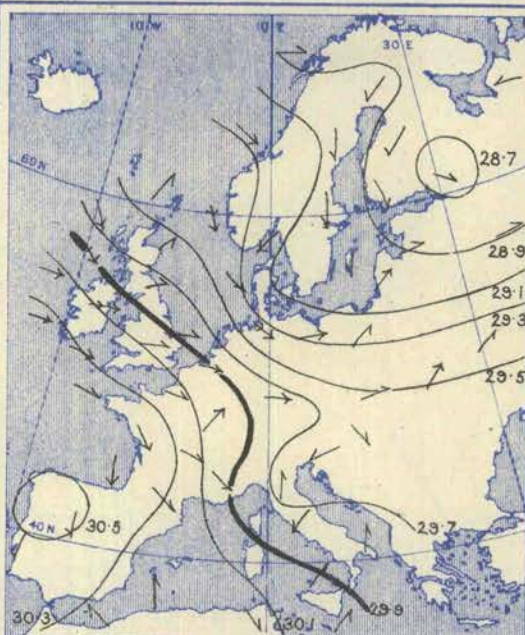


Weather in morning, though clear in several localities, becoming very unsettled over western, north-western, and southern Europe. Rain and sleet falling over the northern and western parts of the British Islands, snow, hail, or rain in many parts of France, Norway and Lapland. Very cold showers reported later over our Islands and western Europe generally. Halos seen at Oxford, and in London.

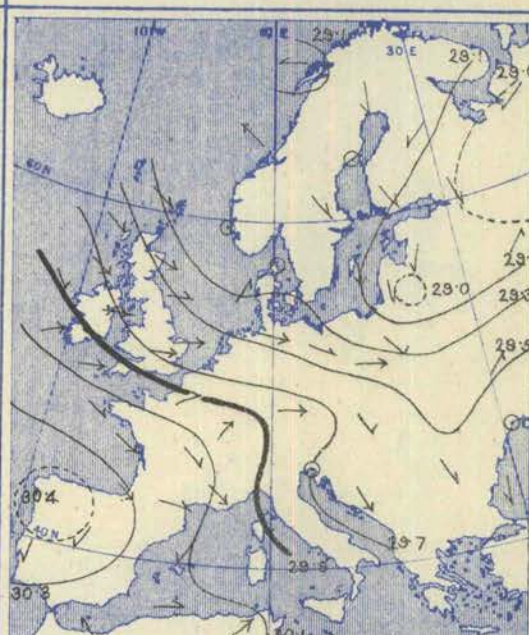
Temperature continuing to fall unsteadily over the whole of western Europe. Morning readings highest, 56° at Algiers and Palermo, 54° at Leghorn, 47° at Brest, Scilly and Beaulieu, 44° at Jersey, 43° at Holyhead. Lowest, 12° at Archangel, 13° at Haparanda, but rather above the freezing point over the greater part of Europe. Falling decidedly but unsteadily over the British Islands later; very sharp frost occurring over Scotland.

Barometer and Wind.

8 a.m.



6 p.m.



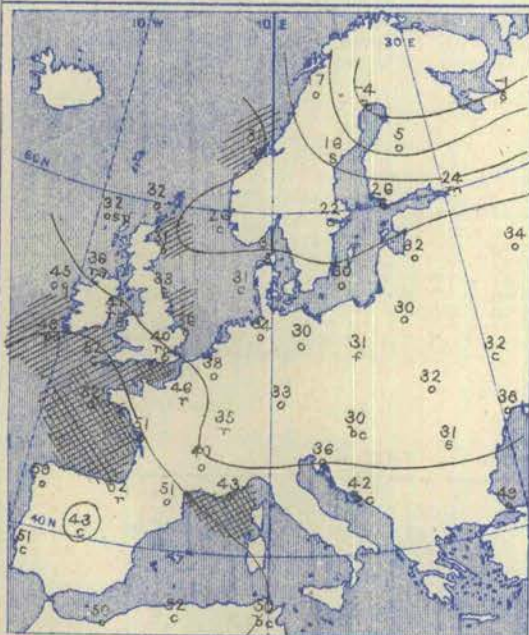
Wind Westerly to Northerly over all the western countries, and blowing a gale over many parts of the British Islands, and the eastern shores of the North Sea; South-Westerly over Hungary, Poland, and North Germany, as well as over the southern half of Russia, but North-Easterly over Finland, Northerly over Sweden. No general change later, but temporary variations from a moderate breeze to a gale observed over the British Islands generally.

Barometer highest, 30.5 ins. and more over the northern half of Spain, and exceeding 30.2 ins. over the Iberian Peninsula generally, the western half of France, and the south-western parts of England and Ireland. Lowest, (1) 28.7 ins. and less to 28.9 ins. over Finland and the northern parts of Russia, and below 29.0 ins. over the extreme south of Sweden and the Baltic; (2), below 29.7 ins. over the north of Italy, and south-eastern Europe generally. Shallow secondary disturbances approaching the northern parts of the British Islands from the north-westward. All the low pressure systems moving south-eastwards later; and barometer rising over northern Europe.

Friday, 4th February.

Temperature and Weather.

8 a.m.

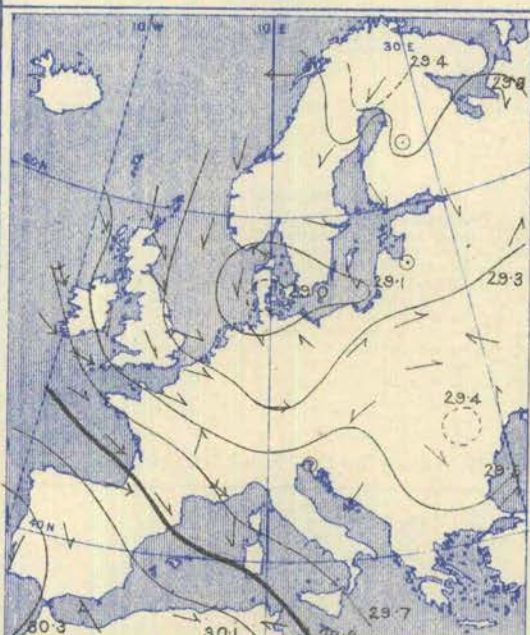


Weather in morning cloudy and very unsettled over the whole of western and many parts of southern Europe, with rain, sleet, or snow in many places; dull over central Europe and Russia, but clear and bright over Lapland and the north of Finland. Squalls of snow, hail, and cold rain experienced later over the British Islands, France, and Germany, large quantities in the east of France and north of Italy, but the weather subsequently clearing in most places. Lightning seen at Valencia.

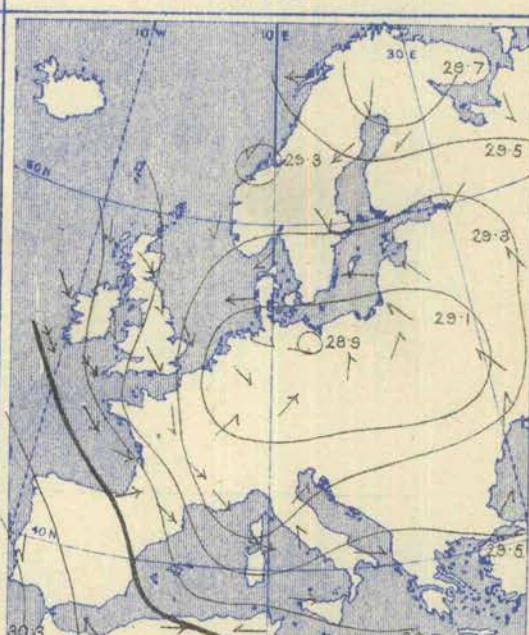
Temperature risen quickly over France and the extreme south of England, fallen elsewhere—rapidly over northern Europe. Morning readings highest, 59° at Corunna, and exceeding 50° on all the Atlantic coasts of the Spanish Peninsula and France, as well as at Jersey and Scilly. Lowest, (1) rather below zero in the extreme north of Europe, but +19° at Carlstadt, 24° at St. Petersburg; (2) 30° to 33° over the greater part of central Europe, 31° at Fano, at Wick, and Aberdeen, 35° at York. Falling unsteadily over the British Islands and France later, and freezing sharply on the ground in those regions at night; freezing very hard over Scandinavia.

Barometer and Wind.

8 a.m.



6 p.m.



Wind (1) Northerly and North-Westerly over our Islands, and blowing hard on our west and south-west coasts; Westerly to South-Westerly over the greater part of Germany, calm at Memel and Riga; North-Easterly over Scandinavia and the north of Finland; (2) blowing hard from the North-Westward (mistral) over the Riviera, and from West at Biarritz. The North-Westerly gale blowing very hard on our south-west coasts later.

Barometer highest, 30.59 ins. in the Azores, and ranging between 30.4 ins. and 30.0 ins. over the Spanish Peninsula and the north of Africa; exceeding 29.7 ins. in the west of France and south-west of Ireland. Lowest, below 29.0 ins. in a depression over Holstein and the Sound; below 29.4 ins. in another disturbance over the south of Russia; secondary disturbances found over the Gulf of Genoa, south Germany, England, and the Irish Sea. All these systems moving south-eastwards later and barometer rising fast over the British Islands and north-western Europe.

Saturday, 5th February.

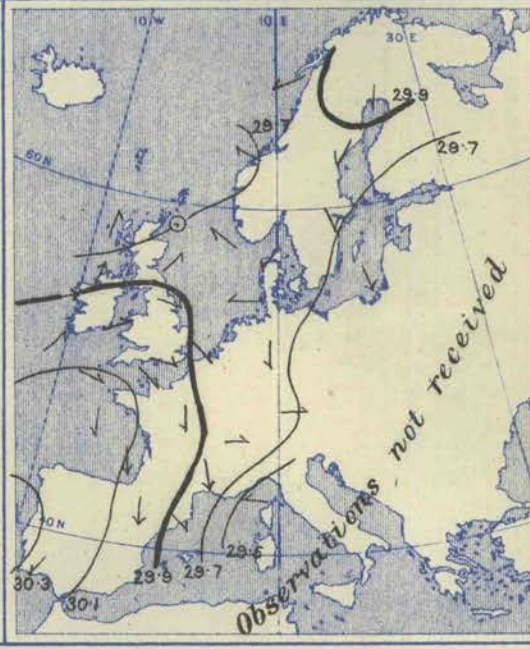
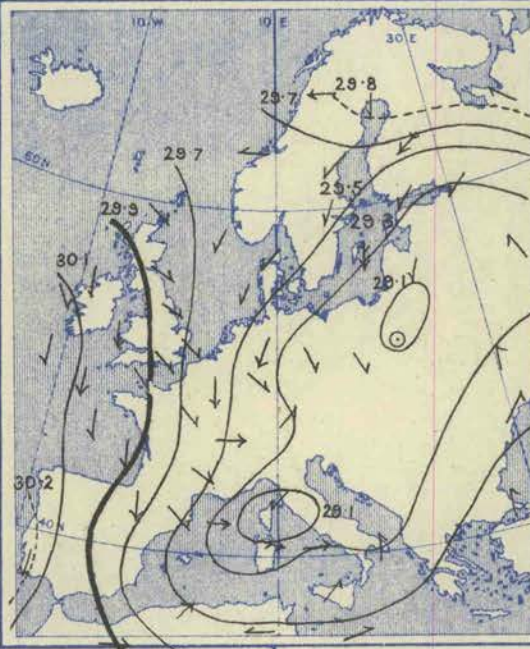
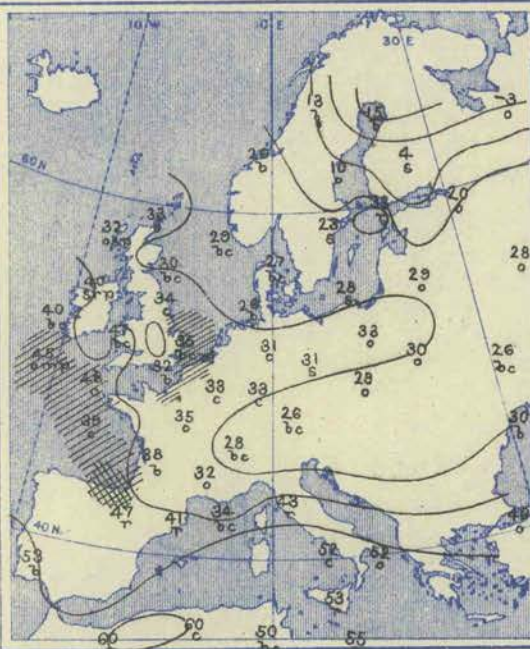
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright over nearly the whole of the British Islands and the western half of France as well as on the Norwegian coast and over the North Sea; very unsettled over the Baltic, rather so over central Europe, and much disturbed over the Mediterranean and north of Italy. Breaking into a rainy unsettled condition over the British Islands later, and considerable quantities of rain and snow falling over central and southern Europe; thunder, lightning, and hail reported from Nice.

Temperature changing very fitfully and considerably—a decided fall shown over the British Islands, northern and western Europe generally, but a rise over Algeria. Morning readings highest, 61° at Algiers, 58° at Lisbon, 48° at Scilly and Valencia (Ireland). Lowest, -15° at Haparanda, +4° at Kuopio, 12° at Karlstad, 20° at St. Petersburg and 26° to 33° over central Europe; 24° at Wick, 29° at Loughborough, 31° at Oxford. Rising again in Ireland during the day, and over Great Britain at night.

Wind (1) Northerly over the British Islands, France, and Spain, moderate to fresh in force; North-Easterly to Northerly over northern Europe, and blowing hard at Kuopio and Wisby; (2) a well-marked cyclonic system prevalent over the northern parts of the Mediterranean and of Italy (a gale at Sanguinaires) and a complex cyclonic circulation of light winds over Central Europe. Wind backing to South-West again later on our western coasts and blowing strongly.

Barometer at 8 a.m. highest, (1) 30.4 ins. over the Azores, and exceeding 30.1 ins. over the western half of the Iberian Peninsula and the south-west of Ireland; (2) 29.8 ins. and more over Lapland and the Kola Peninsula. Lowest, below 29.1 ins. in two depressions—one over Poland, the other over the northern parts of the Mediterranean and Italy, and below 29.2 ins. over Germany and Austria-Hungary generally. Falling fast again later over Ireland and the west of Scotland, rising fast over France and Central Europe.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: — = blue sky; — = detached clouds; — = overcast; — = misty (hazy); — = foggy; — = squally; — = rain; — = hail; — = snow; — = lightning; and — = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The principal variations noticed in the distribution of pressure over Europe during this week were as follow. On the morning of Sunday, (January 30th) an anticyclone still covered Spain, France, the Mediterranean, and the extreme southern counties of the British Islands, but over northern Europe depressions of various intensity were moving from west to east, with a tendency to move south-eastwards after reaching the land from the Atlantic. The winds were consequently mainly westerly over our Islands and the northern countries, and temperature rose so much that on Tuesday maxima as high as 60° to 61° were recorded over various parts of Great Britain, and on Monday the 8.0 a.m. readings, even, exceeded 40° all over our Islands, the North Sea, France, and nearly the whole of central and south-eastern Europe. Gradually, however, the anticyclone moved westwards to Spain, the Bay of Biscay and neighbouring parts of the Atlantic, while the several deep depressions which reached the north-western and northern shores of Europe moved decidedly in a south-easterly direction across Scandinavia, the Baltic and the North Sea, with the result that the westerly winds over our Islands gave way to North-Westerly gales, which blew with great violence on our northern and western coasts, and were accompanied by wet snow, graupel and cold rains—some lightning and thunder, and weather of an inclement character generally. The fall of temperature was continuous and considerable, until at 8.0 a.m. on Saturday it was only on the coast of Portugal that the thermometer exceeded 50° while over the southern parts of France, Germany, southern and central Russia it was below 30°, and in the north of Russia, below zero (Fahr).

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 26.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	8.5	?	15	?	WESTBOURNE (Emsworth)	20.8*	+ 6.3	33*	+ 9
STRATHPEFFER SPA	11.0	+ 1.7	19	+ 1	WATERGATE (Emsworth)	16.5	?	26	?
EDINBURGH	14.3	+ 4.3	24	+ 7	BRIGHTON	18.7	+ 5.2	30	+ 8
MORPETH	17.7	?	30	?	EASTBOURNE	19.6	+ 5.5	31	+ 9
NEWCASTLE-ON-TYNE	13.2	?	22	?	VENTNOR HOSPITAL	17.7	?	28	?
OSWALDKIRK (Yorkshire)					SOUTHPORT	14.7	?	24	?
SHEFFIELD	10.7	?	17	?	COLWYN BAY	15.4	?	25	?
WORKSOP	10.5	- 0.3	17	- 1	TENBY	8.3*	- 7.3	13*	- 13
THURCASTON (Leicestershire)	14.1	+ 3.1	23	+ 5	TORQUAY	9.7	- 5.3	15	- 7
PLUMSTEAD COMMON	6.3	?	10	?	GUERNSEY	18.2*	+ 3.5	28*	+ 4
MARGATE	19.5	+ 6.7	31	+ 11		20.0*	+ 4.3	31*	+ 7

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

Vol. XV. No. 6.]
Third Series.

WEEK ENDING SATURDAY, FEBRUARY 12TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 32.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	52	23	44.7	35.5	40.1	2 above	Day-deg. 8	Day-deg. + 1	Day-deg. 25	Day-deg. - 17	Day-deg. 94	Day-deg. + 56	Day-deg. 100	Day-deg. - 155
	1. SCOTLAND, EAST	54	27	45.8	35.6	40.7	3 above	11	+ 2	25	- 18	113	+ 68	107	- 159
	2. ENGLAND, N.E.	54	28	46.9	35.7	41.3	3 above	14	+ 6	25	- 13	145	+ 106	77	- 165
	3. ENGLAND, EAST	53	28	47.1	34.8	41.0	3 above	14	+ 4	29	- 13	100	+ 56	114	- 164
	4. MIDLAND COUNTIES	54	29	47.6	34.9	41.3	3 above	16	+ 5	29	- 14	122	+ 68	98	- 179
	5. ENGLAND, SOUTH	53	30	49.0	36.9	43.0	3 above	28	+ 16	14	- 20	142	+ 81	39	- 186
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	53	30	46.6	38.1	42.4	3 above	19	+ 9	11	- 19	147	+ 90	32	- 159
	7. ENGLAND, N.W.	52	31	47.0	38.7	42.9	3 above	20	+ 11	9	- 22	139	+ 92	27	- 175
	8. ENGLAND, S.W.	54	29	49.0	39.3	44.2	3 above	27	+ 11	8	- 17	174	+ 89	25	- 138
	9. IRELAND, NORTH	53	30	47.8	38.5	43.2	3 above	23	+ 9	10	- 16	160*	+ 85	36*	- 131
	10. IRELAND, SOUTH	54	31	49.5	40.2	44.8	2 above	27	+ 6	5	- 15	223*	+ 110	15	- 117
	—CHANNEL ISLANDS—	56	36	51.8	41.8	46.8	3 above	34	+ 13	1	- 11	226	+ 101	5	- 70

DISTRICTS. (See p. 32.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 20	10ths of in. 8 more	38	+ 6	Ins. 10.1	+ 2.7	10	+ 1	17	0	44	+ 5	14	+ 2
	1. SCOTLAND, EAST	4	3	4 less	23	- 1	2.1	- 1.7	22	+ 9	35	+ 13	66	+ 9	21	+ 3
	2. ENGLAND, N.E.	2	1	4 less	16	- 6	1.3	- 1.4	19	+ 6	30	+ 9	66	+ 5	19	+ 2
	3. ENGLAND, EAST	3	1	3 less	16	- 7	1.5	- 1.2	13	- 2	19	- 4	55	- 16	16	- 5
	4. MIDLAND COUNTIES	5	2	3 less	17	- 6	1.3	- 2.0	15	0	22	0	55	- 12	15	- 4
	5. ENGLAND, SOUTH	3	2	4 less	14	- 8	1.1	- 2.6	20	+ 6	31	+ 8	65	- 4	17	- 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	13	2 more	31	+ 3	6.2*	- 1.3	22	+ 10	24	+ 16	50	- 1	16	- 1
	7. ENGLAND, N.W.	6	6	1 less	27	+ 2	4.8	+ 0.7	17	+ 5	26	+ 7	52	- 3	17	0
	8. ENGLAND, S.W.	5	5	3 less	23	- 3	3.0	- 2.2	16	- 1	23	- 2	64	- 16	18	- 4
	9. IRELAND, NORTH	6	9	1 more	28	- 1	4.1*	- 0.7	17	+ 4	27	+ 6	42	- 23	13	- 6
	10. IRELAND, SOUTH	4	6	2 less	22	- 5	4.0	- 1.4	24	+ 9	37	+ 13	62	- 18	18	- 5
	—CHANNEL ISLANDS—	5	4	3 less	24	- 4	1.6	- 3.0	28	+ 15	42	+ 21	101	+ 26	32	+ 8

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was unsettled and very rainy in the extreme north and north-west, and similar, but less marked, conditions prevailed in the north-western districts generally. Snow or sleet showers were experienced at some of our northern stations during the earlier part of the week. In the east and south the weather was mostly fair and dry, the only rain occurring either at the commencement or quite at the end of the week.

Temperature, although lower than that for the weeks immediately preceding, was still above the mean, the excess being 3° in almost all districts. The highest of the maxima were recorded during the latter part of the week, and ranged from 56° in the Channel Islands, to 52° in Scotland N. and England N.W. The lowest of the minima, registered, as a rule, during the earlier days of the period, ranged from 23° in Scotland N., to 31° in England N.W. and Ireland S., and to 36° in the Channel Islands.

Rainfall was again much above the mean in Scotland N., and slightly in Scotland W. and Ireland N.; in all other districts there was a deficit, that in the south and east being very considerable.

Bright Sunshine exceeded the mean over the Kingdom as a whole, but was rather less in England E. and S.W., and just equal to it in the Midland counties and Scotland N. The percentage of the possible duration ranged from 42 in the Channel Islands, and from 37 in Ireland S., and 35 in Scotland E., to 19 in England E., and 17 in Scotland N.

Barometer and Wind.—During the early part of the week a large depression in the far north was moving slowly to the eastward (to Norway), while secondary systems were being developed over the North Sea. The winds over our Islands consequently shifted to West and North-West, and blew with the force of a gale in the west and north-west. As the week progressed, however, the distribution of pressure became anticyclonic in the south and south-east, and depressions passed north-eastwards outside our north-western and northern coasts. Some of these were deep and caused strong South-Westerly winds or gales over all the more north-western and northern parts of the Kingdom, and a considerable freshening at times over the south-eastern counties.

II.—DATA from which the SUMMARY on page 31 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.						Rainfall.			Bright Sunshine.					
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	47	30	43.9	35.1	39.5	+ 1.1	5	25	7	0.85	+ 0.05	*	*	*	*
	Stornoway	48	30	44.4	34.7	39.6	+ 0.6	7	28	7	2.61	+ 1.61	12.1	0.0	20	0
	Wick	52	23	44.4	33.9	39.2	+ 1.2	7	30	3	0.19	- 0.34	*	*	*	*
	Laing	49	28	44.5	33.7	39.1	+ 2.4	7	3	6	1.35	+ 0.57	*	*	*	*
	Glencarron	50	31	44.8	37.2	41.0	+ 4.0	8	19	7	3.47	+ 1.56	*	*	*	*
	Fort Augustus	50	30	44.5	36.1	40.3	+ 2.0	7	22	7	2.07	+ 1.09	5.3	- 1.8	9	- 3
	Fort William	51	33	46.1	38.1	42.1	+ 3.3	17	11	7	3.34	+ 1.34	8.8	- 1.6	14	- 4
1. SCOTLAND, E.	Nairn	51	28	45.9	34.9	40.4	+ 2.6	11	28	6	0.70	+ 0.30	*	*	*	*
	Aberdeen	51	30	45.6	35.7	40.7	+ 2.7	10	25	1	0.01	- 0.59	28.4	+ 12.4	46	+ 20
	Braemar	47	27	41.7	33.0	37.4	+ 2.7	0	32	4	0.32	- 0.40	10.8†	- 1.7†	17†	- 4†
	Ochertyre	52	29	46.6	35.7	41.2	+ 4.3	13	26	5	0.42	- 0.56	*	*	*	*
	Leith	54	31	49.3	37.0	43.2	+ 3.7	29	14	4	0.20	- 0.21	*	*	*	*
	Marchmont	50	31	45.4	37.0	41.2	+ 4.2	10	20	3	0.07	- 0.56	22.3	+ 9.0	36	+ 13
	Alnwick Castle	52	30	48.2	36.3	42.3	+ 4.0	26	16	4	0.07	- 0.48	*	*	*	*
2. ENGLAND, N.E.	Durham	52	31	46.5	31.8	40.7	+ 2.7	13	29	3	0.04	- 0.39	21.3	+ 7.5	34	+ 11
	Shields	54	32	48.0	35.9	42.0	+ 2.8	17	17	1	0.02	- 0.38	*	*	*	*
	Scarborough	50	28	45.5	35.6	40.6	+ 1.6	10	25	1	0.04	- 0.44	18.3	?	29	?
	York	52	30	47.4	34.4	40.9	+ 2.1	15	30	3	0.10	- 0.35	17.2	+ 5.9	27	+ 9
	Spurn Head	50	32	45.9	36.9	41.4	+ 2.4	11	21	1	0.02	- 0.33	*	*	*	*
3. ENGLAND, E.	Hillington	50	28	46.4	34.4	40.4	+ 1.9	12	30	2	0.16	- 0.30	11.6	- 3.1	18	- 6
	Yarmouth	50	31	45.6	34.1	39.9	+ 1.7	10	31	2	0.06	- 0.41	*	*	*	*
	Geldeston	51	30	47.2	35.7	41.5	+ 2.5	15	26	2	0.06	- 0.34	14.0	- 1.5	21	- 3
	Cambridge	53	29	48.7	34.3	41.5	+ 2.7	19	32	3	0.14	- 0.24	13.3	- 1.7	20	- 3
	Rothamsted	50	30	47.6	35.7	41.7	+ 3.7	16	26	4	0.14	- 0.39	11.5	- 2.5	17	- 5
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	31	48.6	35.6	42.1	+ 3.4	28	18	4	0.07	- 0.34	*	*	*	*
	Loughborough	54	29	48.3	33.6	41.0	+ 2.0	18	34	4	0.35	- 0.12	*	*	*	*
	Stamford (Duddington)	52	31	47.7	34.4	41.1	+ 2.6	16	31	6	0.19	- 0.27	*	*	*	*
	Cheadle	51	32	44.9	35.0	40.0	+ 2.4	8	27	6	0.55	- 0.08	*	*	*	*
	Shirley (near Solihull)	50	31	46.7	34.6	40.7	+ 2.5	13	30	6	0.22	?	*	*	*	*
	Churchstoke	52	31	48.3	35.6	42.0	+ 2.3	18	18	5	0.19	- 0.35	*	*	*	*
	Hereford	51	29	47.9	34.7	41.3	+ 3.2	17	30	4	0.09	- 0.56	17.4	+ 2.2	26	+ 3
	Cirencester	52	31	48.7	35.9	42.3	+ 2.6	17	28	5	0.12	- 0.36	14.8	+ 0.8	22	0
5. ENGLAND, S.	Oxford	52	31	48.7	35.9	42.3	+ 2.6	17	28	5	0.12	- 0.36	14.8	+ 0.8	22	0
	London	52	31	48.7	34.9	41.8	+ 1.8	19	30	3	0.25	- 0.20	6.5†	- 1.3†	10†	- 2†
	North Foreland	51	33	47.3	36.4	41.9	+ 2.4	15	24	2	0.17	?	*	*	*	*
	Dungeness	51	30	49.0	35.6	42.3	+ 2.5	29	18	4	0.19	- 0.35	*	*	*	*
	Hastings (St. Leonards)	51	32	48.8	37.8	43.3	+ 3.3	27	12	4	0.16	- 0.42	25.2	+ 7.5	38	+ 11
	Southampton	53	31	51.2	38.0	44.6	+ 3.8	35	11	3	0.12	- 0.54	19.1	+ 2.8	29	+ 4
	Hurst Castle	51	32	50.3	39.1	44.7	+ 3.7	31	8	3	0.06	- 0.54	*	*	*	*
6. SCOTLAND W.	Shaftesbury	52	32	47.7	36.4	42.1	+ 3.8	24	16	4	0.22	- 0.45	*	*	*	*
	Laudale (Loch Sunart)	50	34	47.5	37.9	42.7	+ 2.7	22	11	7	3.03	+ 1.23	*	*	*	*
	Glasgow	51	31	45.4	37.8	41.6	+ 2.6	10	17	5	0.79	- 0.09	21.7	+ 12.8	34	+ 20
	Ardrossan	48	34	46.0	39.4	42.7	+ 2.5	16	7	6	0.56	- 0.31	*	*	*	*
	Glenlee	53	32	46.8	37.3	42.1	+ 4.2	20	13	6	1.76	+ 0.41	*	*	*	*
	Gilcrux (Cumberland)	48	30	46.3	36.8	41.6	+ 3.1	12	22	7	1.21	?	20.8	?	33	?
7. ENGLAND, N.W.	Douglas (Isle of Man)	50	36	47.7	39.1	43.4	+ 2.6	22	8	6	0.59	- 0.31	22.4	+ 7.4	35	+ 11
	Stonyhurst	49	34	45.0	37.0	41.0	+ 2.3	8	20	7	1.02	+ 0.12	17.4	+ 5.2	27	+ 8
	Blackpool	52	33	48.2	38.7	43.5	+ 4.3	24	9	7	0.53	- 0.10	21.8	+ 9.6	34	+ 14
	Manchester (Prestwich)	50	31	45.5	36.1	40.8	+ 2.0	10	23	6	0.52	- 0.10	10.0	?	16	?
	Liverpool Obsy. (Bidston)	52	34	47.4	38.9	43.2	+ 3.2	21	9	5	0.41	- 0.06	*	*	*	*
	Llandudno	51	37	48.2	40.5	44.4	+ 2.6	23	4	4	0.46	- 0.10	15.6	+ 1.6	24	+ 1
	Holyhead	51	36	47.7	40.9	44.3	+ 2.1	21	3	5	0.47	- 0.19	*	*	*	*
8. ENGLAND, S.W.	Llandovery	50	29	48.0	33.7	40.9	+ 2.4	17	34	7	0.62	- 0.44	*	*	*	*
	Pembroke	50	40	48.1	43.0	45.6	+ 3.4	25	0	4	1.23	+ 0.48	14.9	- 2.6	23	- 3
	Clifton	52	33	48.9	39.2	44.1	+ 3.6	26	8	1	0.21	- 0.49	*	*	*	*
	Arlington (N. Devon)	51	34	47.4	37.3	42.4	+ 1.6	23	13	7	0.77	- 0.17	*	*	*	*
	Cullompton	52	30	49.7	37.0	43.4	+ 2.6	31	14	4	0.36	- 0.32	10.8	- 3.7	16	- 6
	Falmouth	54	41	50.4	43.0	46.7	+ 2.9	33	0	5	0.38	- 0.60	18.4	+ 1.2	27	+ 1
	Plymouth	51	35	49.9	41.1	45.5	+ 2.9	28	3	6	0.39	- 0.39	15.0	- 1.2	22	- 3
9. IRELAND, N.	Prawle Point	52	33	49.6	39.9	44.8	+ 2.4	28	6	6	0.31	- 0.22	*	*	*	*
	Malin Head	51	38	47.3	41.3	44.3	+ 2.3	19	2	7	0.64	?	*	*	*	*
	Londonderry	51	33	47.9	37.8	42.9	+ 1.9	24	12	6	1.30	+ 0.50	*	*	*	*
	Edenfel (Omagh)	49	30	46.0	37.1	41.6	+ 2.6	11	20	6	0.68	- 0.02	*	*	*	*
	Belmullet	53	35	49.0	41.0	45.0	+ 1.9	25	3	7	1.50	+ 0.38	*	*	*	*
	Markree Castle	51	34	49.1	38.7	43.9	+ 3.7	27	9	6	1.15	+ 0.47	16.4	+ 3.3	26	+ 5
	Armagh	50	31	47.5	37.4	42.5	+ 2.5	23	13	6	0.72	+ 0.19	18.0	+ 4.9	28	+ 7
	Donaghadee	52	33	47.7	37.0	42.4	+ 1.4	24	14	6	0.37	- 0.28	*	*	*	*
10. IRELAND, S.	Edgeworthstown	51	33	48.1	37.4	42.8	+ 3.8	25	13	3	0.50	- 0.20	*	*	*	*
	Dublin	54	36	49.6	40.5	45.1	+ 2.9	28	4	3	0.21	- 0.31	28.5	+ 12.5	44	+ 19
	Parsonstown	53	31	49.3	37.6	43.5	+ 2.5	29	12	3	0.38	- 0.22	23.8	+ 9.3	37	+ 14
	Kilkenny	53	31	48.9	37.0	43.0	+ 1.3	28	14	3	0.22	- 0.48	*	*	*	*
	Roche's Point	52	38	49.6	41.6	45.6	+ 1.8	27	1	4	0.30	- 0.82	*	*	*	*
	Valencia	52	41	50.7	43.3	47.0	+ 2.0	35	0	6	0.85	- 0.43	20.1	+ 4.3	30	+ 5
	Killarney	53	36	50.0	39.0	44.5	+ 1.0	30	8	6	1.44	?	*	*	*	*
CHANNEL ISLANDS	Foynes	51	38	48.3	42.1	45.2	+ 3.5	22	0	6	0.81	?	*	*	*	*
	Scilly (St. Mary's)	56	42	51.9	43.9	47.9	+ 2.4	41	0	6	0.41	- 0.33	17.8	?	27	?
	Jersey	55	36	51.6	39.6	45.6	+ 2.8	35	7	3	0.34	- 0.33	34.5	+ 14.7	51	+ 20

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

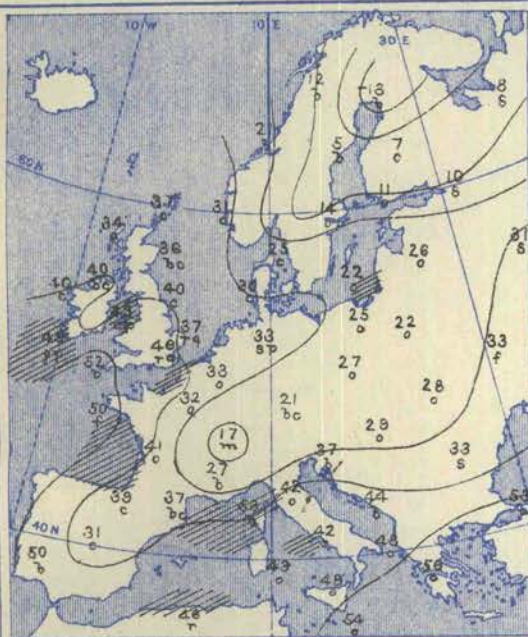
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 6th February.

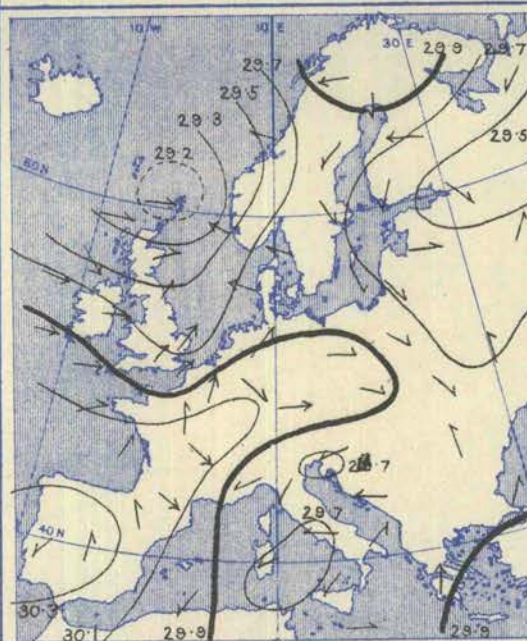
Temperature and Weather.

8 a.m.

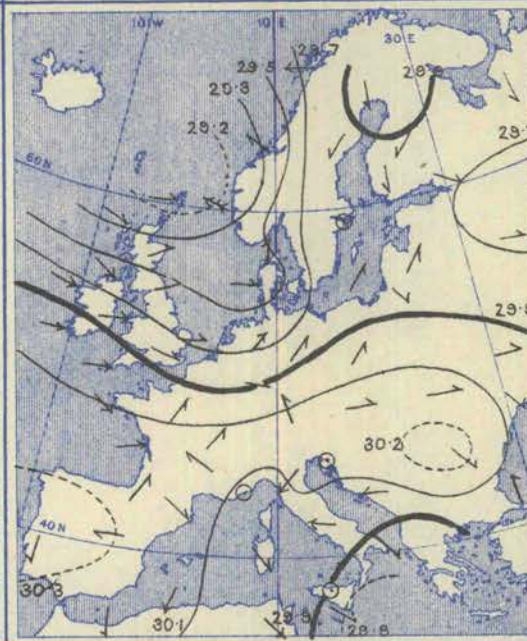


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine at many of our own western and northern stations, but showery in places; dull and rainy in the south and east of England. Fine over the northern parts of Scandinavia, as well as over Germany, Spain, and the south of France; cloudy or dull in other parts of the Continent, with snow at Archangel, St. Petersburg, and Moscow, as well as at Hermanstad. Some improvement taking place later over England, but rain falling in France, hail on our own western coasts, and snow in the northern parts of Great Britain. Thunder and lightning reported at Leith.

Temperature risen in our Islands and the neighbouring parts of the Continent, but fallen elsewhere. Morning readings highest, (1) 56° at Patras, 55° at Athens, and 54° at Malta; (2) 52° at Scilly, and 50° at Brest and Lorient. Lowest, -13° Fahr. at Haparanda, -7° at Uleaborg, and +4° at Karlstad; below the freezing point over Denmark, Germany, and central France. Daily maxima below 45° at many of our own northern stations, but thermometer exceeding 50° on our extreme south-west coasts. Exceeding 55° over the Spanish Peninsula and the south of Italy, and reaching 64° at Lisbon.

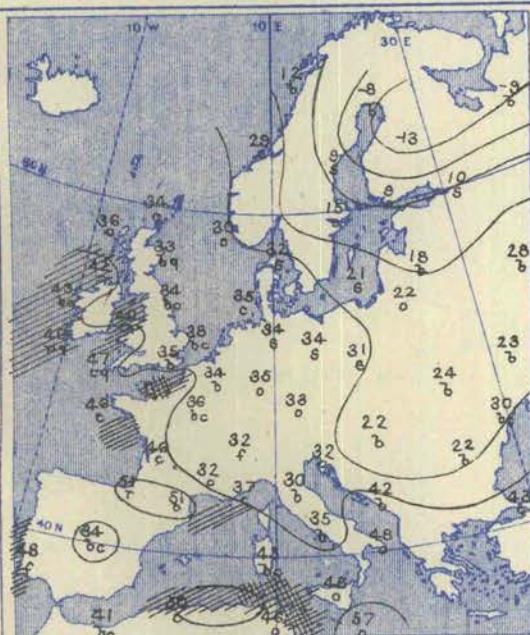
Wind fresh to strong from the Westward or North-Westward on our western and extreme northern coasts, and from the South-Westward over the south and east of England and the neighbouring parts of the Continent; Easterly or South-Easterly on the eastern shores of the North Sea. Easterly or North-Easterly over the northern parts of Sweden and Russia; North-Westerly over the Baltic and the Gulf of Finland. Light from the Westward in Germany and Austria; Easterly or North-Easterly over Italy and the Adriatic; Northerly or North-Westerly in the south of France. Subsequently veering to the Westward in the south and east of England; no important change occurring elsewhere.

Barometer highest, 30.3 ins. and upwards in an anticyclone lying over the Spanish Peninsula. Lowest, 29.2 ins. and less in a depression off the north of Scotland; 29.5 ins. and less in another disturbance over northern Russia; 29.7 ins. and less in two shallow areas lying respectively over Croatia and the northern part of the Adriatic, and between the coasts of Italy and Tunis. Depression off Scotch coasts subsequently moving north-eastwards, other low pressure systems partially filling up.

Monday, 7th February.

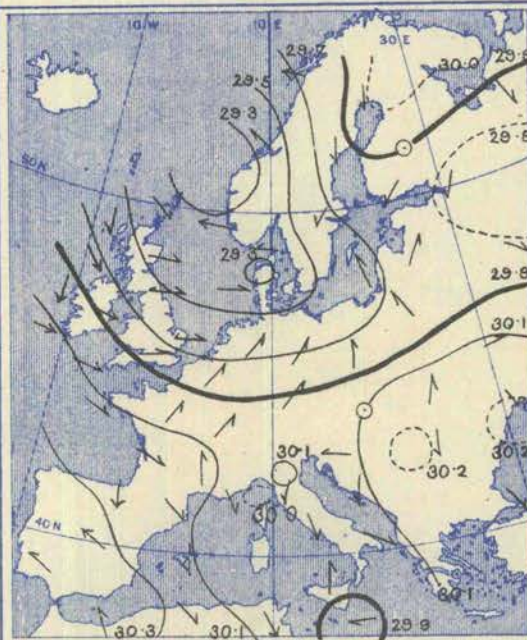
Temperature and Weather.

8 a.m.

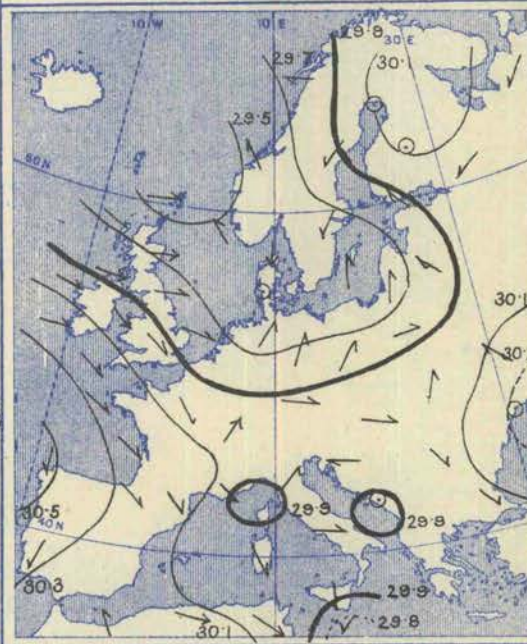


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning squally and showery in the western and extreme northern parts of our Islands, but fine in the east. Cloudy and unsettled over the greater part of the Continent, with rain at Biarritz, and snow in several parts of Denmark, Germany and the south of Scandinavia, as well as at St. Petersburg. Fine over Austria, northern Italy and the central and southern parts of Russia. Showers of snow, hail or cold rain falling later over nearly the whole of western Europe. Rain occurring in Italy and the south of Spain.

Temperature fallen in our Islands and also over Russia, Austria and northern Italy, risen elsewhere. Morning readings highest, 57° at Malta, 52° at La Calle and 51° at Biarritz and Perpignan; above 45° on our own extreme south-west coasts. Lowest, -13° Fahr. at Knopio, -11° at Uleaborg and -9° at Archangel; considerably below the freezing point over northern and eastern Europe generally. Daily maxima below 45° in the north and east of our Islands, but ranging between 48° and 50° on our southern coasts, exceeding 50° in the west and south of France, and exceeding 55° at several of the Spanish and Mediterranean stations. Frost occurring over Great Britain at night.

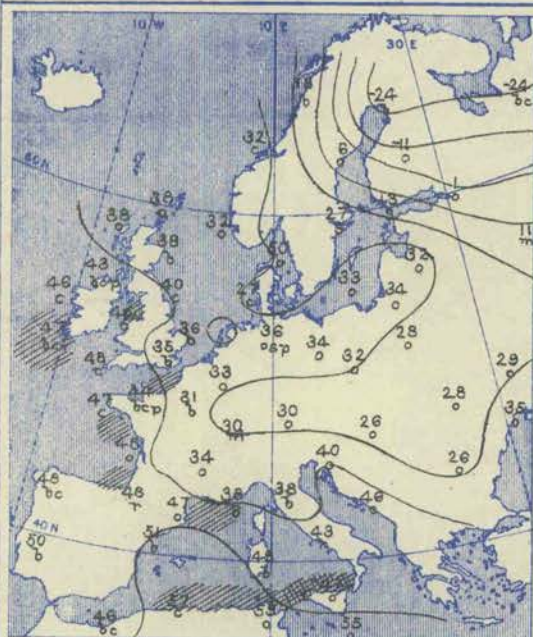
Wind strong to a gale from the North-West on our western coasts, moderate from the West in the east of our Islands, the Netherlands and the north of Russia, South-Westerly over Germany and the east of France, Easterly or South-Easterly over Norway and the south of Sweden. Light from the Northward over western Russia and the Gulf of Bothnia, and from the West over central and southern Russia; calm in Austria, variable in Italy—Easterly over the Spanish Peninsula and strong in force at Madrid. Subsequently veering to the North-West over France, the Netherlands and the south-east of England.

Barometer highest, 30.3 ins. and upwards in an anticyclone over the Spanish Peninsula; 30.1 ins. to 30.2 ins. in another system over south-eastern Europe, 30.0 ins. and less in a third over Lapland. Lowest, 29.4 ins. and less in a complex depression over the northern parts of Denmark and the North Sea, and the west of Norway; 29.8 ins. and less in a shallow area over central Russia, 29.9 ins. and less in another shallow disturbance near Malta. Depression over North Sea partially filling up later, and barometer rising over western Europe generally.

Tuesday, 8th February.

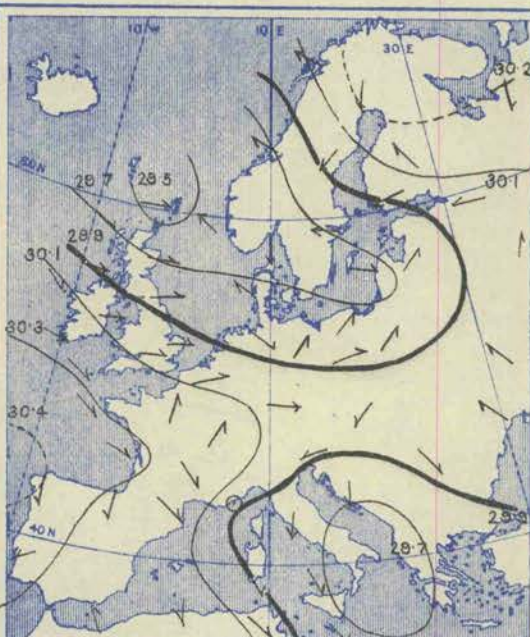
Temperature and Weather.

8 a.m.

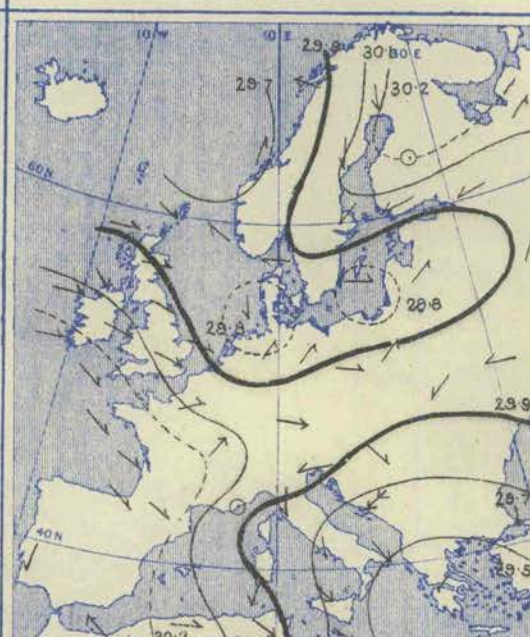


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over our Islands as a whole, but with showers in a few places. Cloudy or dull in most of the Continental countries; with rain at Biarritz and Rome, and snow over the Gulf of Finland and the south of Sweden, as well as at Cuxhaven. Fine over the Spanish Peninsula, northern Italy, and the extreme south of France. Showers falling later over western, northern and central Europe generally, and heavy rain in some parts of France and southern Italy.

Temperature risen generally, but fallen in Russia and the north of Sweden. Morning readings highest, 57° at Algiers, 55° at Malta and La Calle and 51° at Barcelona; above 45° in the extreme south-west of our Islands. Lowest, -24° Fahr. at Archangel and Haparanda, -15° at Uleaborg, and -11° at Kuopio; considerably below the freezing point over the northern parts of Russia and Scandinavia generally, and slightly below it in many parts of central Europe. Rising during day to between 45° and 50° over our Islands generally, and to 52° at Jersey. Exceeding 50° also in the west and south of France, and exceeding 55° in some parts of Spain and southern Italy. Frost occurring over Great Britain at night.

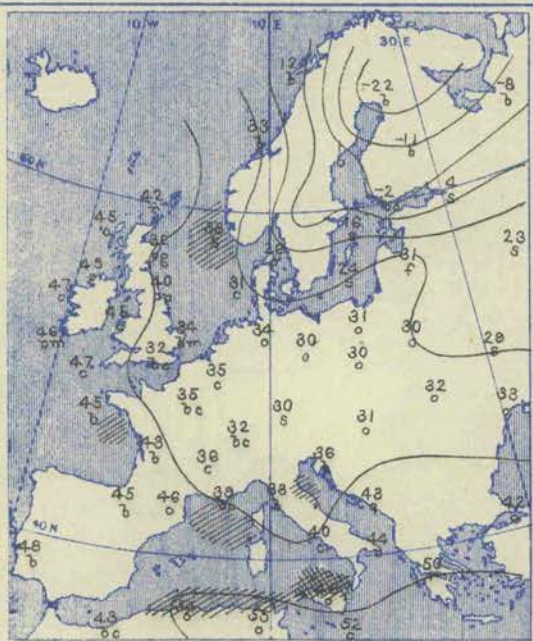
Wind light to fresh from the Westward or North-Westward over our Islands, the Netherlands and the greater part of France; Northerly (North-West to North-East) over Italy and the Spanish Peninsula. Light from the South-Westward over Germany and Poland; Easterly over Scandinavia and northern Russia, and strong in many places; variable in Denmark. No important change occurring over western Europe during day.

Barometer highest 30.4 ins. and upwards in the north-west of Spain, 30.2 ins. and upwards in an anticyclone extending from the Atlantic over the whole of the Spanish Peninsula, the western and central parts of France and the south-west of our Islands, as well as in two other systems, one lying over Lapland, and the other over the south of Russia. Lowest, 29.5 ins. and less in a depression near the Shetlands, 29.7 ins. and less in a large shallow area over Greece and southern Italy. Depression in north filling up later, barometer rising over western Europe generally.

Wednesday, 9th February.

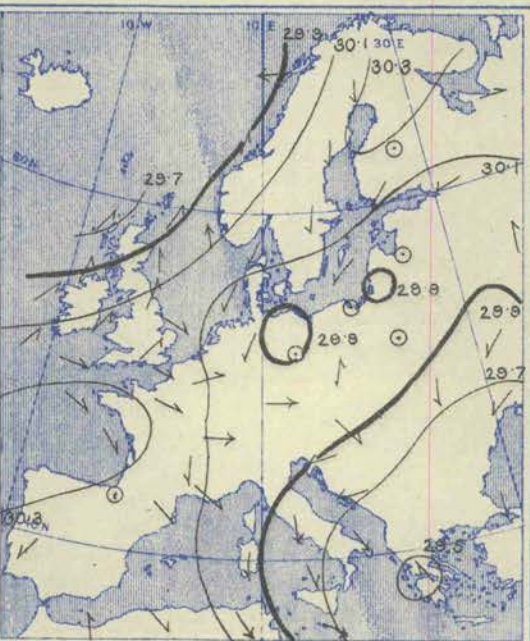
Temperature and Weather.

8 a.m.

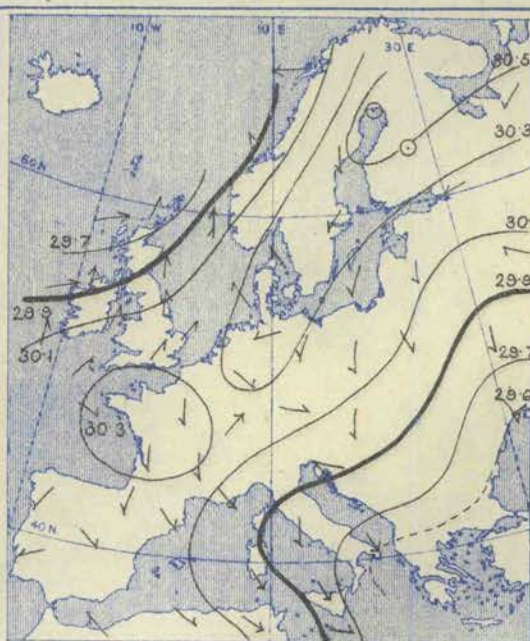


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the south of England, as well as over France and the greater part of southern Europe. Fine also in the west of Norway and in the extreme north of Russia, but cloudy or dull in nearly all other localities, with showers at several of our own western and northern stations, and snow in Russia and the south of Scandinavia, as well as at Swinemünde and Munich. Rain falling at Brindisi and Patras. Showers reported during day in many parts of western Europe, and solar halos in the south of England.

Temperature risen in the north of our Islands, fallen in most other localities. Morning readings highest, 55° at La Calle, 54° at Algiers, and 52° at Malta; above 45° at the Mediterranean stations generally, and also on our own extreme west and south-west coasts. Lowest, -22° Fahr. at Haparanda, -21° at Uleaborg, and -11° at Kuopio; slightly below the freezing point in many parts of central Europe. Rising during day to between 45° and 50° over our Islands generally; exceeding 50° on our extreme south-west coasts, and exceeding 60° over the southern parts of the Spanish Peninsula.

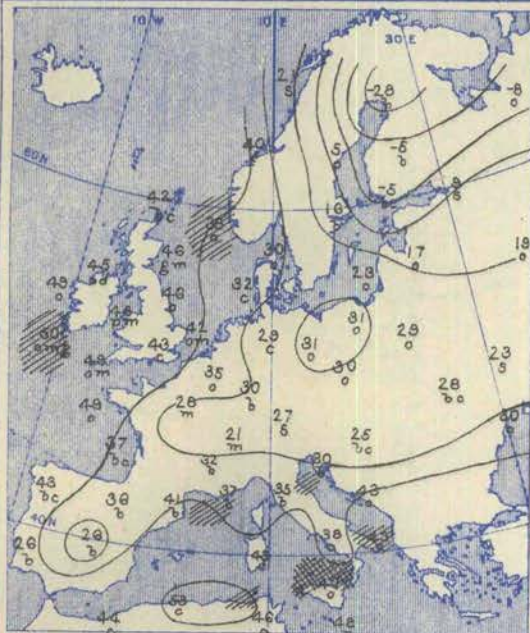
Wind light to moderate from the South-Westward over the greater part of our Islands, but westerly on our southern coasts. Light from the Northward or North-Westward in France, and strong from the same quarters in Italy. Strong from between South and East on the Norwegian coasts; light to moderate from the Northward or North-Eastward over Sweden, Denmark, and Russia; westerly in Austria and south Germany. Subsequently increasing to a strong breeze or moderate gale from the South-Westward on our extreme north-west coasts, and to a strong gale from the Southward at Skudesnaes. No important change occurring elsewhere.

Barometer highest, 30.4 ins. and upwards over Lapland; 30.3 ins. and upwards over the Bay of Biscay, the west of France, and the north-west of Spain. Lowest, 29.6 ins. and less in a large area over south-eastern Europe; 29.7 ins. and less in a shallow depression off the north-west of Scotland. Latter disturbance subsequently moving northwards, but barometer continuing to fall on our western and northern coasts.

Thursday, 10th February.

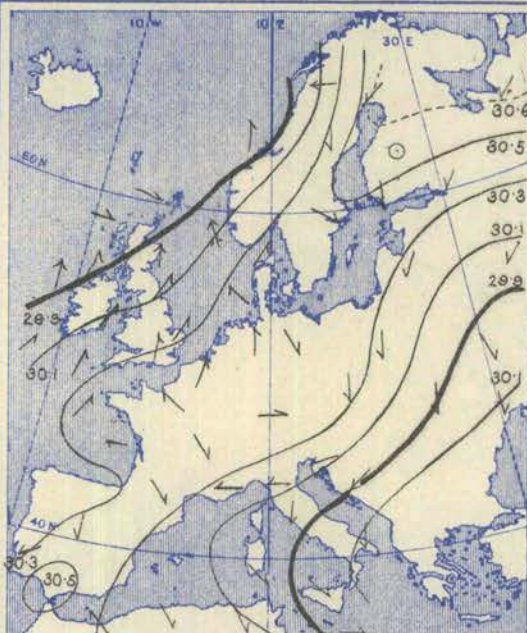
Temperature and Weather.

8 a.m.

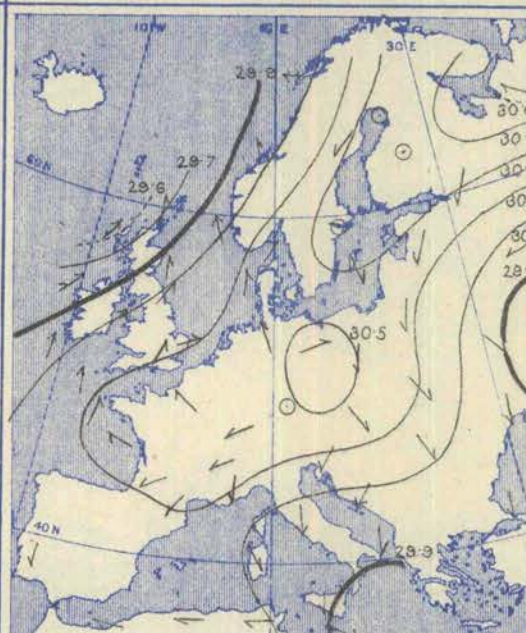


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over our Islands and the northern, eastern and central parts of the Continent generally; showers reported at several of our own western stations, and snow at Bodø, St. Petersburg, Kiev, Nicolaieff and Munich. Fine over France, the Spanish Peninsula and northern Italy, as well as in Finland and Lapland. Considerable quantities of rain falling later on our extreme north-west coasts, and smaller amounts in many other parts of our Islands; snow falling at several of the Scandinavian stations.

Temperature risen in our Islands, and also in Scandinavia, Denmark and northern Russia, but fallen elsewhere. Morning readings highest, 53° at Algiers and La Calle, and 52° at San Fernando; above 45° at most of our own western and northern stations, and touching 50° at Valencia (Ireland). Lowest, -28° Fahr. at Haparanda, -14° at Uleaborg, and -8° at Archangel; considerably below the freezing point over Sweden and Russia generally, and several degrees below it over south Germany and central France. Rising later to 50° and upwards in most parts of the United Kingdom, and to 54° at Leith and Shields. Reaching 55° at Lorient and Nice, 57° at Perpignan, 59° at Lisbon and 61° at Cagliari.

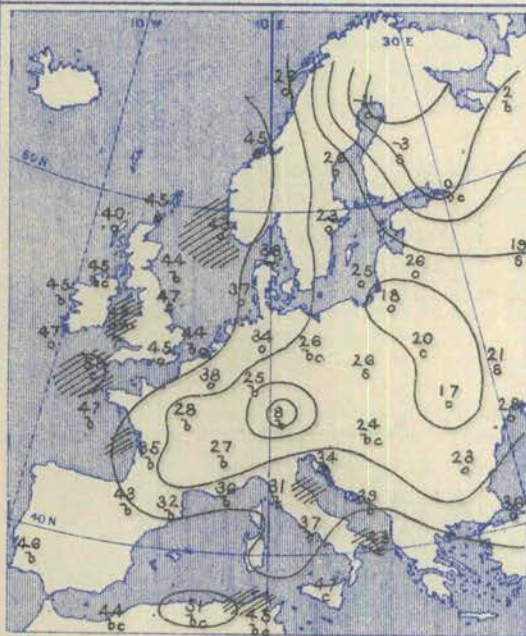
Wind light to moderate from the Southward or South-Westward over the greater part of our Islands, but Westerly in the Shetlands and Hebrides; Southerly or South-Easterly on the eastern shores of the North Sea, with a gale at Skudesnaes. Northerly or North-Easterly over Sweden, Russia, eastern Germany, Austria and Italy—strong in force at several of the Italian stations. Light from the Eastward over the Bay of Biscay and the western and southern parts of the Spanish Peninsula. Subsequently increasing to a fresh gale from the South-Westward in the north-west of Ireland, and also in the east of Scotland.

Barometer highest, 30.9 ins. and upwards over the extreme north of Russia, 30.4 ins. and upwards in a broad band stretching thence across Sweden, the Baltic and Germany to central France, and also in a separate area over the central and southern parts of Spain. Lowest, 29.7 ins. and less in a large area lying over south-eastern Europe, 29.8 ins. and less in a depression passing away to the north of our Islands. New disturbance appearing later off our extreme north-west coasts; barometer falling rather quickly in that region.

Friday, 11th February.

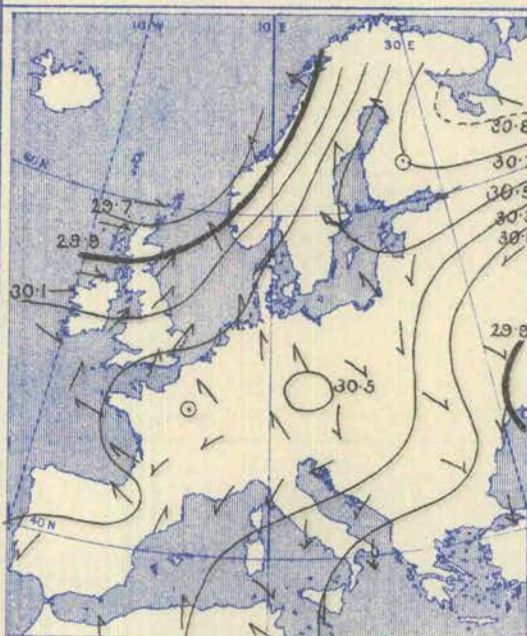
Temperature and Weather.

8 a.m.

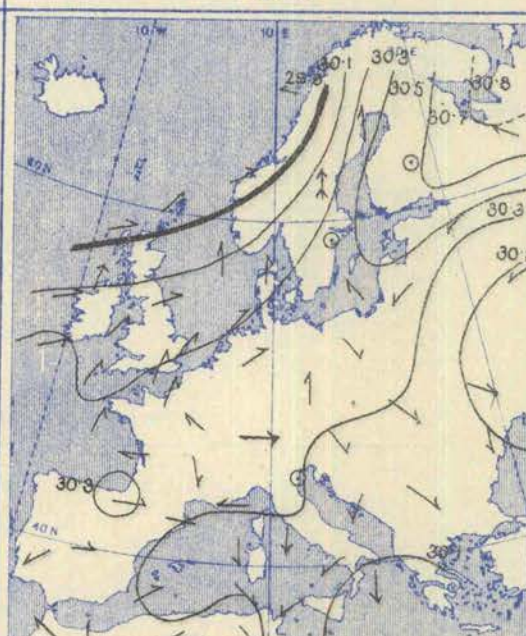


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in Ireland and Scotland and also over France, western Germany and the greater part of southern Europe. Cloudy or dull elsewhere, with mist in Denmark and the south of Scandinavia, and with snow at Kuopio, Moscow, Kiev, Breslau and Cracow. Showers falling later in several parts of our Islands—mostly in the west and north, snow reported in Sweden. Aurora seen in the north-east of Scotland and also at Skudesnaes.

Temperature fallen a little in the west and north of our Islands, and also in France, Germany, Austria and the south of Russia; risen elsewhere—quickly over Sweden and the Gulf of Bothnia. Morning readings highest, (1) 53° at La Calle, 51° at Algiers, and 50° at Barcelona and Malta; (2) 51° at Scilly and 50° at Pembroke (above 45° over the southern parts of our Islands generally). Lowest, -13° Fahr. at Uleaborg, -11° at Haparanda and -3° at Kuopio; below the freezing point over nearly the whole of northern, eastern and central Europe. Rising during day to 50° and upwards in most parts of the United Kingdom, and to 56° at Scilly. Reaching 55° on the west and south coasts of France, and exceeding 60° over the southern parts of the Spanish Peninsula.

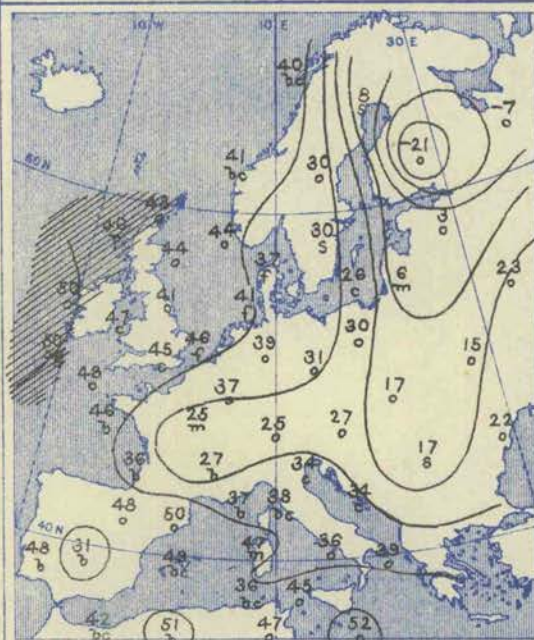
Wind light to moderate from the Westward in Ireland and also in the Shetlands and Hebrides, but from the South-Westward over Great Britain as a whole; Southerly or South-Easterly over Scandinavia, Denmark and north Germany, and strong in force at Bodø and Skudesnaes. Light from the Eastward or North-Easterly over northern and central Russia, and from the North-Westward over Poland, Austria and the south of Russia, Northerly or North-Easterly over Italy and the Spanish Peninsula, Easterly in the west and south of France. Subsequently backing to the South-Westward in the north of Ireland; no important change occurring elsewhere.

Barometer highest, 30.8 ins. at Archangel, 30.6 ins. and upwards in the extreme north of Russia generally, 30.4 ins. and upwards in a band extending thence over Sweden, the Baltic, Germany and central France. Lowest, 29.7 ins. and less in a depression lying to the northward of our Islands, 29.8 ins. and less in another disturbance over the south of Russia. New depression beginning to approach our north and north-west coasts at night.

Saturday, 12th February.

Temperature and Weather.

8 a.m.

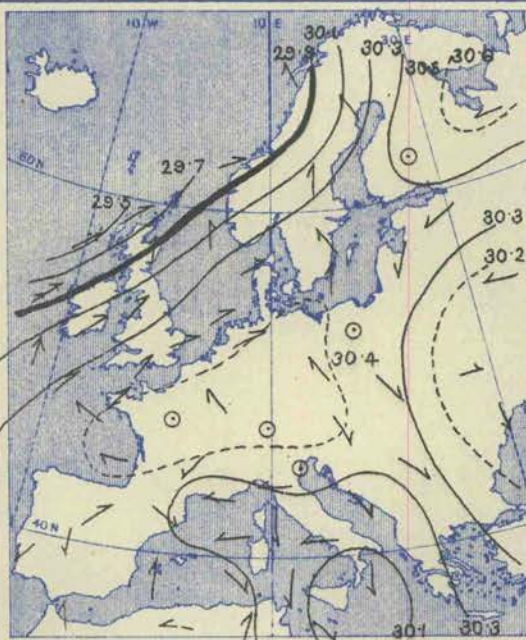


Weather in morning fine over France, the Spanish Peninsula, and northern Italy, as well as in the west of Norway. Cloudy or dull in nearly all other parts of Europe, with fog at some of the English stations, as well as in Holland, Denmark, and the south of Norway; rain falling at Stornoway, and snow at Haparanda, Stockholm, Prague, Cracow, and Hermannstadt. Rain falling later in most parts of our Islands, Scandinavia, and Denmark—heavily at Stornoway and Pembroke. Aurora seen at Wick and Aberdeen.

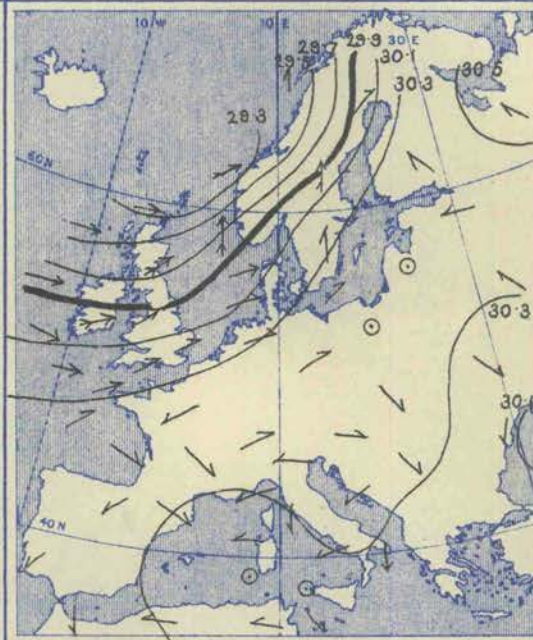
Temperatures risen in most countries, but fallen quickly in Finland, and to a less extent in Italy and the south of Russia. Morning readings highest, (1) 52° at Malta, 51° at Algiers, and 50° at San Fernando; (2) 50° at Belmullet and Valencia (Ireland); above 45° in all but the north-eastern and central parts of our Islands. Lowest, -21° Fahr. at Kuopio, -7° at Archangel, and -4° at Helsingfors; below the freezing point over northern, eastern, and central Europe generally. Rising during day to 50° and upwards at most of our own central and southern stations, as well as in the north of Scotland; exceeding 55° over the Spanish Peninsula and the west and south of France, and reaching 58° at Perpignan and also at Lisbon.

Barometer and Wind.

8 a.m.



6 p.m.



Wind Southerly or South-Westerly over north-western Europe generally, and strong in force on many parts of the Irish and Scotch coasts, with a gale at Belmullet. Light from the Eastward or North-Eastward over northern and central Russia, but Northerly over Poland, Austria, and the greater part of southern Europe. Easterly in the west and south of France; calm or variable over south Germany and central France. Subsequently increasing to a fresh or strong gale from the South-Westward on nearly all parts of our north and north-west coasts, and also in the west of Norway.

Barometer highest, 30.6 ins. and upwards in the extreme north of Russia; 30.2 ins. and upwards in all but the north-western and south-eastern parts of Europe. Lowest, 29.6 ins. and less in a depression lying off the north-west of Scotland. Depression subsequently moving north-eastwards, but small secondary disturbances appearing over our western coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\Rightarrow$ = a heavy gale; $\Rightarrow$ = a gale; $\Rightarrow$ = a fresh to strong breeze; $\Rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the beginning of the week the highest barometrical pressures were found over the southern parts of Europe, the weather in the north-western countries being affected by a depression which lay off the north of Scotland, and by secondary disturbances which passed across our Islands and the North Sea. Over western Europe the wind was chiefly Westerly or North-Westerly and strong in force in the West and North, the weather being in a changeable, showery state generally, with snow in all the more northern districts.

The depression in the north, however, soon dispersed, while two anticyclones appeared over Europe—the one forming over the northern parts of Sweden and Russia, while the other advanced over France and the south of our Islands from the Atlantic. In the former region the weather now became very cold, the thermometer falling many degrees below zero; at Haparanda the reading on the night of the 9th was as low as -38° Fahr. For the remainder of the week the two anticyclones were united by a "col" stretching across the more central parts of the Continent, the weather in the north of our Islands and also in the west of Norway again coming under the influence of depressions which moved along at a considerable distance to the north of Scotland. The winds over the United Kingdom consequently backed to the South-Westward, and blew strongly in the north and north-west, while the thermometer rose gradually, the readings observed during the latter part of the week being again high for the time of year.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 32.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	9.3	?	16	?	WESTBOURNE (Emsworth)	27.2*	+11.2	41*	+15
STRATHPEFFER SPA	15.7	+3.7	26	+6	WATERGATE (Emsworth)	20.8	?	32	?
EDINBURGH	26.5	+16.0	42	+23	BRIGHTON	27.2	+11.7	41	+17
MORPETH	23.9	?	33	?	EASTBOURNE	28.1	+12.3	43	+20
NEWCASTLE-ON-TYNE	17.3	?	27	?	VENTNOR HOSPITAL	32.7	?	50	?
OSWALDKIRK (Yorkshire)	17.1	+4.3	27	+7	SOUTHPORT	18.6	?	29	?
SHEFFIELD	15.1	?	23	?	COLWYN BAY	17.6	?	27	?
WORKSOP	10.7	-1.6	16	-3	TENBY	16.2*	-1.6	25*	-3
THURCASTON (Leicestershire)	14.7	+2.4	23	+4	NEWQUAY	17.7*	+1.9	28*	+2
PLUMSTEAD COMMON	2.6	?	4	?	TORQUAY	32.8*	+14.8	48*	+21
MARGATE	11.0	-3.7	17	-5	GUERNSEY				

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C. ; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW ; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

VOL. XV. No. 7.]
Third Series.

WEEK ENDING SATURDAY, FEBRUARY 19TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a “Day-degree” signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of “Accumulated Temperature” will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 38.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	52	27	42.8	33.3	38.1	1 above	Day-deg. 2	Day-deg. - 5	Day-deg. 31	Day-deg. - 5	Day-deg. 96	Day-deg. + 51	Day-deg. 131	Day-deg. - 160
	1. SCOTLAND, EAST	59	27	44.5	33.7	39.1	2 above	7	- 2	31	- 11	120	+ 66	138	- 170
	2. ENGLAND, N.E.	57	26	46.6	35.4	41.0	2 above	13	+ 4	26	- 9	158	+ 110	103	- 174
	3. ENGLAND, EAST	54	27	47.0	36.1	41.6	3 above	14	+ 2	25	- 15	114	+ 58	139	- 179
	4. MIDLAND COUNTIES	56	25	46.8	36.6	41.7	3 above	13	+ 1	22	- 17	135	+ 69	120	- 196
5. ENGLAND, SOUTH	55	27	48.5	39.2	43.9	4 above	25	+ 11	8	- 23	167	+ 92	47	- 209	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	53	25	45.4	36.7	41.0	2 above	10	0	21	- 8	157	+ 90	53	- 167
	7. ENGLAND, N.W.	56	27	46.3	38.6	42.4	2 above	17	+ 7	10	- 19	156	+ 99	37	- 194
	8. ENGLAND, S.W.	54	22	49.7	40.3	45.0	4 above	28	+ 11	5	- 19	202	+ 100	29*	- 158
	9. IRELAND, NORTH	53	29	47.2	37.5	42.4	2 above	22	+ 8	13	- 12	183*	+ 94	49	- 143
	10. IRELAND, SOUTH	57	24	50.3	40.3	45.3	3 above	30	+ 9	5	- 13	253	+ 119	20	- 130
	—CHANNEL ISLANDS—	54	37	52.0	44.3	48.2	4 above	43	+ 21	0	- 11	269	+ 122	5	- 81

DISTRICTS. (See p. 38.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	10ths of in. 23	10ths of in. 13 more	45	+ 9	12.4	+ 4.0	8	- 6	12	- 10	52	- 1	13	0
	1. SCOTLAND, EAST	5	5	1 less	28	+ 1	2.6	- 1.8	18	+ 2	28	+ 3	84	+ 11	22	+ 3
	2. ENGLAND, N.E.	4	2	2 less	20	- 6	1.4	- 1.7	16	0	24	0	82	+ 6	20	+ 2
	3. ENGLAND, EAST	4	1	3 less	20	- 7	1.6	- 1.5	18	+ 1	25	0	73	- 15	18	- 3
	4. MIDLAND COUNTIES	4	3	1 less	21	- 5	1.6	- 2.2	14	- 1	21	- 1	69	- 13	16	- 4
5. ENGLAND, SOUTH	4	4	2 less	18	- 8	1.5	- 2.7	16	0	23	0	81	- 3	20	- 1	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	8	2 less	37	+ 5	7.0	- 1.5	14	+ 2	22	+ 4	64	+ 2	18	+ 1
	7. ENGLAND, N.W.	6	7	1 more	33	+ 4	5.5	+ 0.8	13	- 1	19	- 3	65	- 4	17	- 1
	8. ENGLAND, S.W.	5	5	3 less	28	- 2	3.4*	- 2.6	16	- 3	23	- 4	79*	- 19	19	- 5
	9. IRELAND, NORTH	6	9	2 more	34	+ 1	5.0	- 0.5	9	- 6	13	- 10	51	- 29	13	- 8
	10. IRELAND, SOUTH	4	4	4 less	26	- 5	4.4	- 1.8	11	- 6	16	- 9	73	- 24	18	- 5
	—CHANNEL ISLANDS—	5	2	4 less	29	- 4	1.8	- 3.4	20	- 6	29	- 9	121	+ 21	30	+ 4

Bright Sunshine.—Owing to the absence of mean values for some of the stations the “differences from the mean” for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective at times.

General Remarks.

Weather continued mild and fair over the greater part of the Kingdom during the first half of the period, and was again mild and rainy in the extreme north and north-west. After Wednesday, however, it became much colder, and showers of cold rain or sleet were experienced in all parts of the Kingdom.

Temperature was again above the mean as a whole, the excess ranging from 4° in England S. and S.W., and the Channel Islands, to 1° in Scotland N. The highest of the maxima were registered at most stations on the 15th, and ranged from 59° in Scotland E., and 57° in England N.E. and Ireland S., to 52° in Scotland N. The lowest of the minima were recorded on Saturday, when the thermometer fell to 22° in England S.W., 24° in Ireland S., 25° in the Midland counties and Scotland W., 29° in Ireland N., and to 37° in the Channel Islands.

Rainfall was again much above the mean in Scotland N., and was slightly in excess in England N.W. and Ireland N. Elsewhere the fall, though greater than that of last week, was again less than the normal.

Bright Sunshine was deficient over the Kingdom generally, but somewhat exceeded the mean in Scotland N. and W. The percentage of possible duration ranged from 29 in the Channel Islands, and 28 in Scotland E., to 16 in Ireland S., 13 in Ireland N., and 12 in Scotland N.

Barometer and Wind.—During the earlier half of the week large depressions were again moving north-eastward to the northward of Scotland on their way from the Atlantic to Norway, and the winds over our Islands were consequently South-Westerly to Westerly and occasionally blew hard at the north-western and northern stations. During Wednesday, however, a depression which had reached Scandinavia commenced to travel in a south-easterly direction, small secondary disturbances at the same time moving south-eastwards over Ireland and England. With this change the wind veered to the North-Westward, increased greatly in force, and attained the force of a severe gale on many parts of our northern and western coasts.

II.—DATA from which the SUMMARY on page 37 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42° F.	Below 42° F.	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	50	30	41.6	33.6	37.6	- 0.4	0	31	7	2.00	+ 1.25	*	*	*
	Stornoway	51	28	44.1	32.0	38.1	- 0.9	6	37	7	2.03	+ 1.11	9.1	- 5.9	14 - 9
	Wick	52	30	43.4	32.6	38.0	0.0	4	34	7	0.59	+ 0.03	*	*	*
	Laing	51	27	41.4	31.5	36.5	0.0	0	39	7	1.89	+ 1.14	*	*	*
	Glencarron	50	29	41.6	32.6	37.1	+ 0.1	0	34	7	3.77	+ 2.17	*	*	*
	Fort Augustus	52	31	43.1	34.7	38.9	+ 0.3	3	26	6	2.25	+ 1.27	4.5	- 4.5	7 - 7
1. SCOTLAND, E.	Fort William	52	31	44.4	36.2	40.3	+ 1.3	7	22	6	3.61	+ 1.75	5.4	- 7.6	8 - 12
	Nairn	53	30	44.3	32.1	38.2	+ 0.2	6	36	7	0.73	+ 0.27	*	*	*
	Aberdeen	59	31	44.7	34.0	39.4	+ 1.4	8	30	6	0.24	- 0.30	27.9	+ 10.0	42 + 15
	Braemar	49	27	40.2	30.4	35.3	+ 0.4	0	47	6	0.72	+ 0.02	11.0†	- 5.3†	17† - 10†
	Ochertyre	54	28	45.9	32.9	39.4	+ 2.2	11	35	5	0.60	- 0.26	*	*	*
	Leith	55	30	47.3	34.6	41.0	+ 1.1	15	30	2	0.17	- 0.20	*	*	*
2. ENGLAND, N.E.	Marchmont	55	33	44.7	38.1	41.4	+ 4.2	8	16	3	0.23	- 0.35	17.3	+ 1.2	26 + 1
	Alnwick Castle	54	31	46.9	35.9	41.4	+ 3.1	14	25	7	0.14	- 0.38	*	*	*
	Durham	56	26	47.1	33.7	40.4	+ 2.4	14	33	4	0.10	- 0.30	21.9	+ 6.1	33 + 8
	Shields	57	29	47.1	34.6	40.9	+ 1.8	14	30	3	0.08	- 0.27	*	*	*
	Scarborough	55	30	46.6	34.2	40.4	+ 1.4	13	31	1	0.42	0.00	19.9	?	29 ?
	York	56	28	47.1	35.6	41.4	+ 2.5	14	26	5	0.19	- 0.21	10.9	- 3.1	16 - 5
3. ENGLAND, E.	Spurn Head	52	33	44.7	38.4	41.6	+ 2.6	8	15	4	0.23	- 0.08	*	*	*
	Hillington	54	33	46.6	36.0	41.3	+ 3.0	13	24	4	0.12	- 0.30	17.8	+ 0.8	26 + 1
	Yarmouth	52	33	45.9	36.6	41.3	+ 3.1	11	22	6	0.18	- 0.22	*	*	*
	Geldeston	53	31	47.6	35.4	41.5	+ 2.5	16	27	4	0.09	- 0.27	20.0	+ 2.5	29 + 3
	Cambridge	54	28	48.4	35.6	42.0	+ 3.0	18	18	2	0.13	- 0.21	18.9	+ 2.0	27 + 2
	Rothamsted	53	27	46.6	37.0	41.8	+ 3.5	13	21	4	0.17	- 0.31	13.4	- 2.6	19 - 5
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	56	28	47.6	36.0	41.8	+ 2.8	16	25	2	0.08	- 0.29	*	*	*
	Loughborough	55	26	47.4	36.1	41.8	+ 2.6	15	25	5	0.22	- 0.18	*	*	*
	Stamford (Duddington)	55	28	46.3	36.0	41.2	+ 2.3	12	24	2	0.09	- 0.31	*	*	*
	Cheadle	53	27	44.6	35.5	40.1	+ 2.2	7	25	5	0.30	- 0.26	*	*	*
	Shirley (near Solihull)	53	25	46.3	36.6	41.5	+ 2.5	12	22	5	0.55	?	*	*	*
	Churchstoke	56	25	47.6	37.1	42.4	+ 2.5	23	14	4	0.66	+ 0.19	*	*	*
5. ENGLAND, S.	Hereford	51	25	46.7	37.0	41.9	+ 3.5	13	21	3	0.53	- 0.02	16.9	- 0.7	24 - 2
	Cirencester	52	27	47.6	38.6	43.1	+ 3.2	22	10	3	0.32	- 0.09	15.4	- 0.6	22 - 1
	Oxford	54	30	48.1	38.7	43.4	+ 3.3	24	9	4	0.33	- 0.06	9.0†	0.0†	13† 0†
	London	53	34	47.1	38.9	43.0	+ 3.3	20	9	4	0.25	?	*	*	*
	North Foreland	55	29	49.4	39.9	44.7	+ 4.8	28	6	5	0.19	- 0.21	*	*	*
	Dungeness	52	31	47.8	38.0	42.9	+ 2.9	23	11	4	0.39	- 0.11	17.0	- 3.0	25 - 4
6. SCOTLAND W	Hastings (St. Leonards)	55	28	51.1	38.6	44.9	+ 3.9	35	10	5	0.42	- 0.15	18.2	- 0.1	26 - 1
	Southampton	53	30	50.0	41.9	46.0	+ 5.0	28	0	5	0.33	- 0.17	*	*	*
	Hurst Castle	50	27	46.3	38.5	42.4	+ 3.5	18	10	4	0.51	- 0.13	*	*	*
	Shaftesbury	53	29	45.6	35.2	40.4	+ 0.4	10	26	6	1.80	+ 0.15	*	*	*
	Laudale (Loch Sunart)	51	29	44.2	36.2	40.2	+ 1.2	6	22	5	0.63	- 0.17	14.2	+ 3.8	22 + 6
	Glasgow	50	30	46.3	38.0	42.2	+ 2.0	18	11	5	0.34	- 0.36	*	*	*
7. ENGLAND, N.W.	Ardsrossan	51	25	44.9	34.8	39.9	+ 1.6	8	28	6	1.04	- 0.09	*	*	*
	Glenlee	51	30	44.7	37.2	41.0	+ 2.0	8	19	6	0.61	?	10.4	?	16 ?
	Gilerux (Cumberland)	53	33	46.4	38.5	42.5	+ 1.7	18	10	6	0.32	- 0.48	18.4	+ 1.4	27 + 2
	Douglas (Isle of Man)	51	31	44.5	36.9	40.7	+ 1.9	7	20	6	1.44	+ 0.62	13.2	- 0.8	19 - 2
	Stonyhurst	50	27	46.5	38.7	42.6	+ 3.4	18	9	6	0.40	- 0.12	16.7	+ 2.2	25 + 3
	Blackpool	53	29	45.4	36.8	41.1	+ 2.2	10	21	6	0.32	+ 0.30	12.2	?	18 ?
8. ENGLAND, S.W.	Manchester (Prestwich)	56	32	47.1	38.9	43.0	+ 2.7	20	9	5	0.37	- 0.03	*	*	*
	Liverpool Obsy. (Bidston)	54	35	47.4	40.0	43.7	+ 1.9	20	6	7	0.52	+ 0.04	11.5	- 4.8	17 - 8
	Llandudno	51	37	47.0	40.0	43.5	+ 1.5	19	6	4	0.45	- 0.15	*	*	*
	Holyhead	54	22	49.3	36.0	42.7	+ 3.5	30	17	6	1.10	+ 0.15	*	*	*
	Llandovery	50	35	49.3	42.4	45.9	+ 3.7	27	0	1	0.12	- 0.50	11.8	- 7.2	17 - 11
	Pembroke	52	27	47.3	40.1	43.7	+ 2.9	20	5	5	0.59	- 0.01	*	*	*
9. IRELAND, N.	Clifton	50	30	48.0	38.3	43.2	+ 2.3	24	10	6	1.17	+ 0.19	*	*	*
	Arlington (N. Devon)	53	27	50.8	38.9	44.9	+ 3.9	33	9	5	0.45	- 0.27	11.2	- 5.6	16 - 9
	Cullompton	54	35	50.9	42.7	46.8	+ 3.0	34	0	4	0.24	- 0.72	26.3	+ 6.6	38 + 10
	Falmouth	53	32	50.7	42.3	46.5	+ 4.0	32	0	4	0.05	- 0.63	16.7	- 3.0	24 - 4
	Plymouth	53	29	51.1	41.6	46.4	+ 4.4	32	1	6	0.18	- 0.29	*	*	*
	Prawle Point	51	37	46.1	39.6	42.9	+ 0.9	16	7	7	0.97	?	*	*	*
10. IRELAND, S.	Malin Head	53	35	46.1	36.8	41.5	+ 0.5	11	21	6	1.19	+ 0.53	*	*	*
	Londonderry	51	32	45.7	36.7	41.2	+ 2.2	10	21	6	1.17	+ 0.58	*	*	*
	Edenfel (Omagh)	52	35	48.9	40.3	44.6	+ 1.6	25	5	7	0.65	- 0.37	*	*	*
	Belmullet	53	32	48.5	38.4	43.5	+ 3.3	26	10	6	1.08	+ 0.41	7.0	- 8.2	10 - 13
	Markree Castle	52	32	45.9	36.2	41.1	+ 1.1	11	23	6	0.86	+ 0.30	11.2	- 3.6	16 - 6
	Armagh	53	33	47.4	37.0	42.2	+ 1.3	22	14	5	0.25	- 0.30	*	*	*
CHANNEL ISLANDS	Donaghadee	52	29	48.7	35.0	41.9	+ 2.1	19	30	4	0.72	+ 0.12	*	*	*
	Edgeworthstown	56	32	50.1	39.3	44.7	+ 2.6	30	8	4	0.72	+ 0.22	11.3	- 6.1	17 - 8
	Dublin	54	28	49.7	38.3	44.0	+ 3.0	30	10	5	0.28	- 0.23	10.6	- 5.5	16 - 9
	Parsonstown	55	28	49.3	37.4	43.4	+ 1.6	29	13	3	0.19	- 0.43	*	*	*
	Kilkenny	55	33	51.1	42.1	46.6	+ 2.8	32	0	1	0.02	- 1.00	*	*	*
	Roche's Point	54	32	51.3	43.6	47.5	+ 2.5	39	0	6	0.37	- 0.83	10.7	- 6.8	16 - 10
CHANNEL ISLANDS	Valencia	57	24	50.6	40.4	45.5	+ 1.8	31	4	7	0.79	?	*	*	*
	Killarney	54	28	49.7	40.9	45.3	+ 3.3	28	3	5	0.55	?	*	*	*
CHANNEL ISLANDS	Foynes	54	37	52.1	44.9	48.5	+ 2.7	46	0	3	0.04	- 0.60	23.7	?	34 ?
	Scilly (St. Mary's)	54	37	51.9	43.6	47.8	+ 4.8	41	0	6	0.34	- 0.24	16.0	- 6.1	23 - 10
CHANNEL ISLANDS	Jersey	54	37	51.9	43.6	47.8	+ 4.8	41	0	6	0.34	- 0.24	16.0	- 6.1	23 - 10

Stations marked *M* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 13th February.

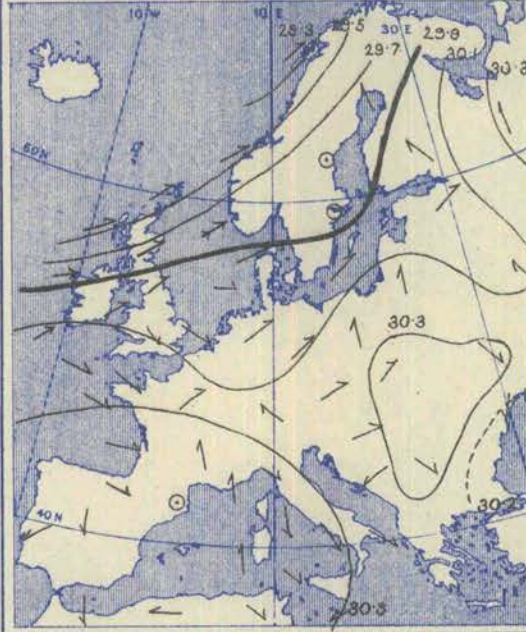
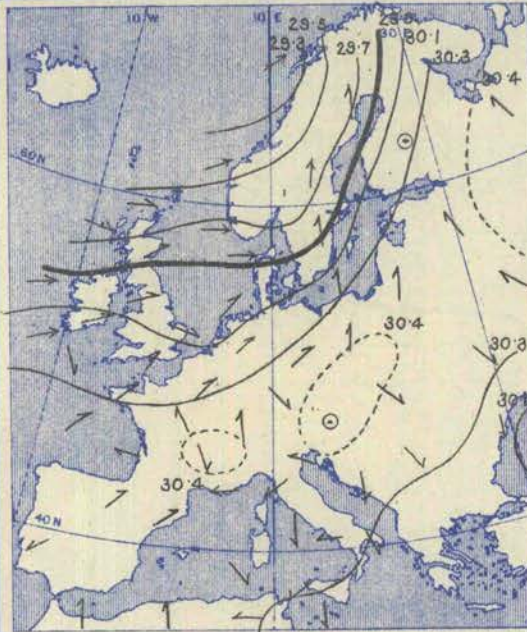
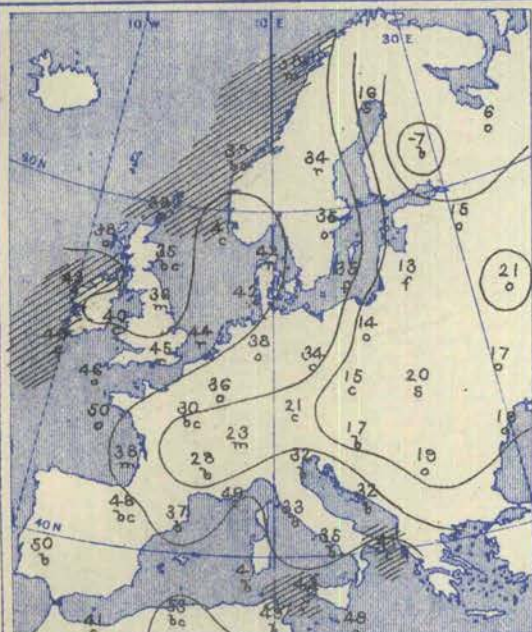
Temperature and Weather.

Barometer and Wind.

8 a.m.

8 a.m.

6 p.m.



Weather in morning fine over the Mediterranean and the whole of southern Europe, as well as over central France; very changeable elsewhere, with rain in many parts of our Islands, fog in northern and eastern Germany and the south of Sweden, snow over the northern parts of the Gulf of Bothnia. Heavy rain later over the Hebrides and Shetlands—a considerable fall at Malin Head, and smaller quantities over most parts of north-western Europe—snow or sleet over Finland and at most of the Baltic stations.

Temperature changing frequently. Morning readings highest, 53° at Algiers, 50° at Brest and Lorient, 48° at Hurst Castle, 46° at Valencia (Ireland) and at the North Foreland; 41° at Skudenes, 39° at Christiansund. Lowest, -7° at Kuopio, +6° at Archangel, 15° at St. Petersburg and at Breslau—much below the freezing point all over Russia and central Europe, including the inland parts of France and the north of Italy. Rising later to 53° over the Channel Islands, and touching 59° at Perpignan, 63° at Lisbon, Algiers, and La Calle.

Wind light and anticyclonic over southern, central, and eastern Europe, cyclonic in the north. South-Westerly and Southerly at the most northern of our own and the Continental stations, variable from between South-South-West and North-North-West over the southern parts of England. Becoming light from North-West and West over our southern districts later, but continuing Southerly over the Baltic and Gulf of Bothnia.

Barometer highest, 30.4 ins. and more to 30.2 ins. in a very complex anticyclonic system covering almost the whole of Continental Europe, excepting Scandinavia. Lowest, 29.3 ins. and less over Finmark, the north-west of Norway, and the neighbouring parts of the Atlantic. Shallow secondary depression moving eastwards over the southern parts of England and the North Sea. The last-named systems moving eastwards later, but barometer still falling in the north and north-west of our Islands.

Monday, 14th February.

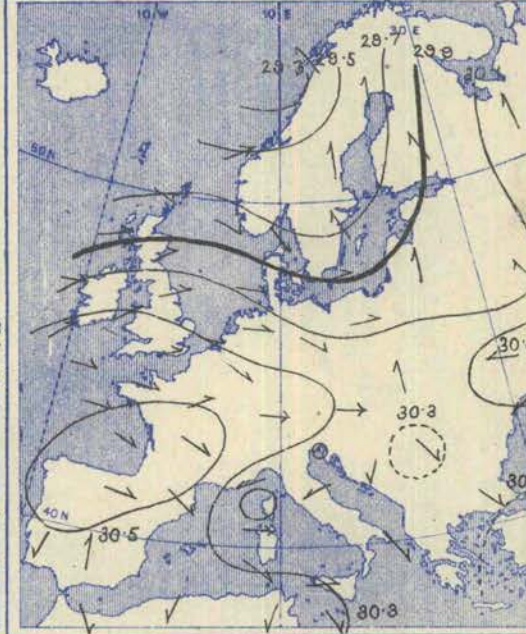
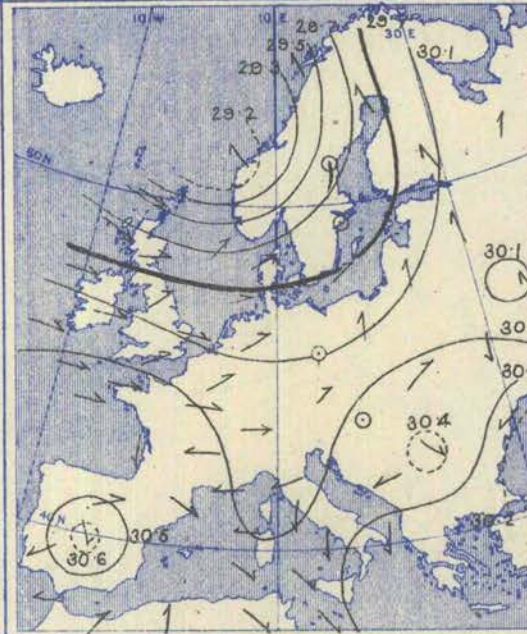
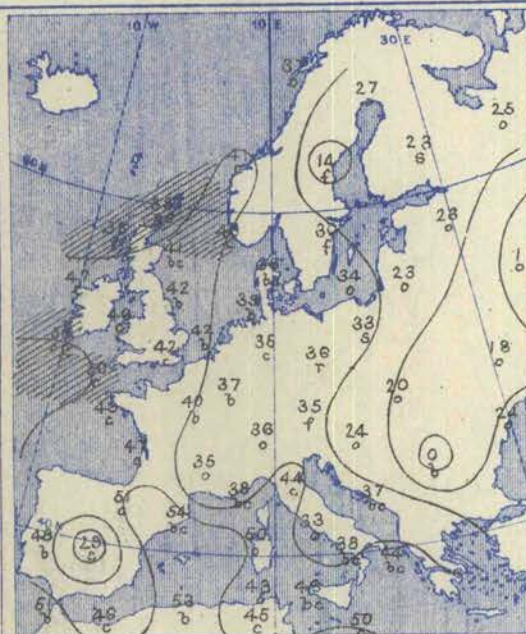
Temperature and Weather.

Barometer and Wind.

8 a.m.

8 a.m.

6 p.m.



Weather in morning fair and quiet over the south-east of Europe, the Mediterranean, Spain, the north of France and the greater part of England; changeable elsewhere. Snow falling in Finland; rain at some of our north-western stations, as well as at Berlin, and several stations in central France. Considerable rain falling later in the Hebrides, the Shetlands and at Christiansund, as well as at Belfort and at Munich. Slight local showers in many other places.

Temperature rising decidedly in almost all districts. Morning readings highest, 53° at Algiers, 51° at San Fernando and Biarritz, 50° at Scilly and Valencia (Ireland), 47° at Belmullet, 46° at Holyhead. Lowest, 1° Fahr. at Moscow, 10° at Hermanstadt, 11° at Cracow, and below 30° over Russia and Austria-Hungary generally, as well as on the Swedish coasts. Rising later to between 50° and 55° over the United Kingdom and the west of France, and to 59° at Perpignan.

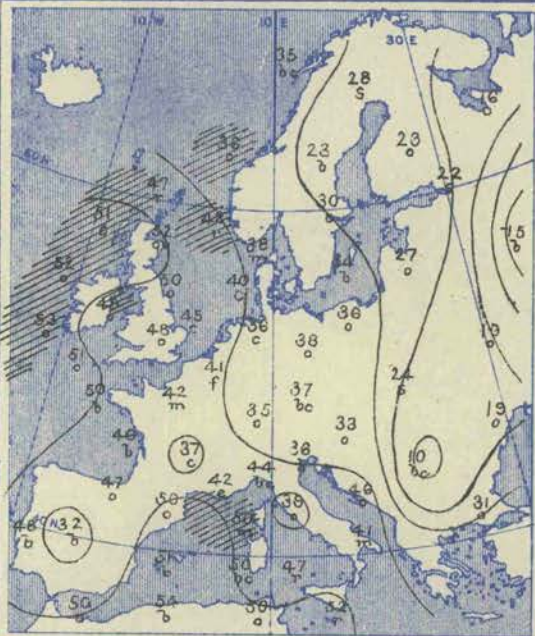
Wind light and very variable over all the eastern and southern countries; North-Westerly to South-Westerly and moderate over the British Islands, South-Westerly over the North Sea, Southerly over the Baltic; South-Easterly over Finland and the northern parts of Scandinavia. Backing towards South in Ireland and the west of Scotland later.

Barometer highest, (1) 30.6 ins. at Madrid, and exceeding 30.3 ins. over the whole of Spain, France and the greater part of south-eastern Europe, (2) exceeding 30.2 ins. over the north of Russia. Lowest, below 29.2 ins. in a depression near Norway and the Shetland Islands. Barometer after rising all over north-western Europe, beginning to fall again in Ireland and Scotland towards evening.

Tuesday, 15th February.

Temperature and Weather.

8 a.m.

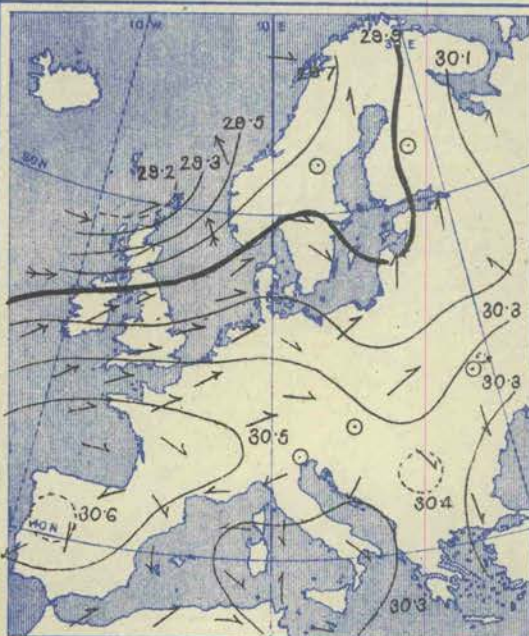


Weather in morning fine and bright over central and eastern Russia, as well as over the Spanish Peninsula, the Bay of Biscay, and the greater part of France; dull and unsettled over the eastern part of the Mediterranean on the one hand, very unsettled in many parts of northern and north-western Europe on the other. Snow in Finland, rain in the west of our Islands, and also at Palermo and Malta. Some rain falling later over almost all parts of the central and north-western countries; snow in the far north—amounts considerable in the Hebrides, Shetlands, and in several parts of Scandinavia.

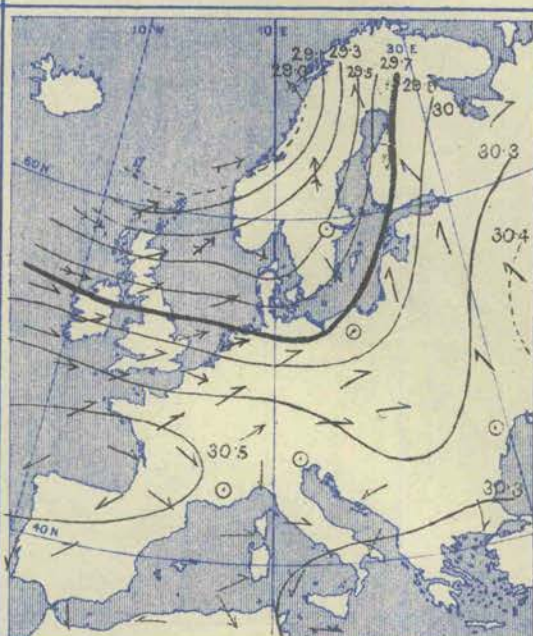
Temperature risen rapidly in Scotland. Morning readings highest, 53° at Valencia (Ireland), and above 50° over the western and northern parts of our Islands generally, 48° in London and at Cape Gris Nez, 40° at Fanö. Lowest, -15° Fahr. at Moscow, +4° at Kharkov, 10° at Kiev and Hermanstadt, and below 32° over Russia and Sweden generally. Rising later to between 50° and 59° over our Islands, as well as the greater part of France, but touching 66° at Lisbon.

Barometer and Wind.

8 a.m.



6 p.m.



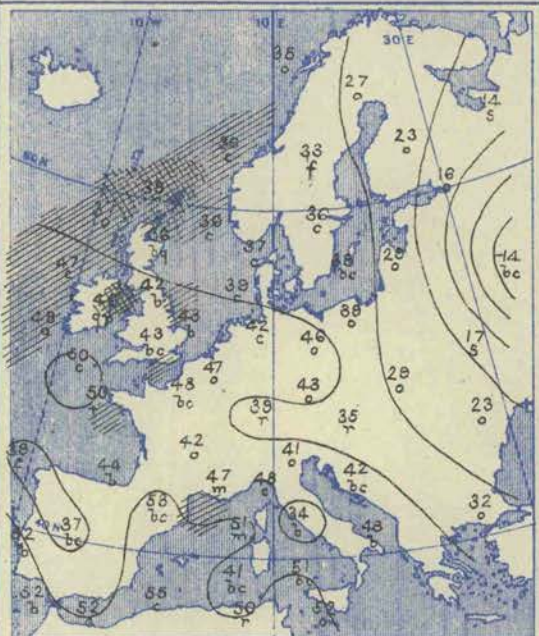
Wind (1) light and anticyclonic over Spain, France, and south-eastern Europe; (2) cyclonic but moderate to light, over Sardinia, Sicily, and the south of Italy; (3) cyclonic in direction and strong to a gale in force from the South-Westward over our western and northern districts, and from South-East in the west of Norway. Strong Westerly gales felt later over Scotland and the north of Ireland, and still later in the south-west of Norway.

Barometer highest, 30.61 ins. at Madrid, and exceeding 30.3 ins. all over Spain, the Bay of Biscay, France, south Germany, and some of the southern parts of Russia. Lowest, below 29.2 ins. in a depression near the Shetland Islands; "V"-shaped secondaries observed over several parts of Russia, Poland, and Hungary, and a large, but shallow, depression over the eastern parts of the Mediterranean. Rising decidedly over Ireland and west of Scotland later, falling over northern Europe.

Wednesday, 16th February.

Temperature and Weather.

8 a.m.

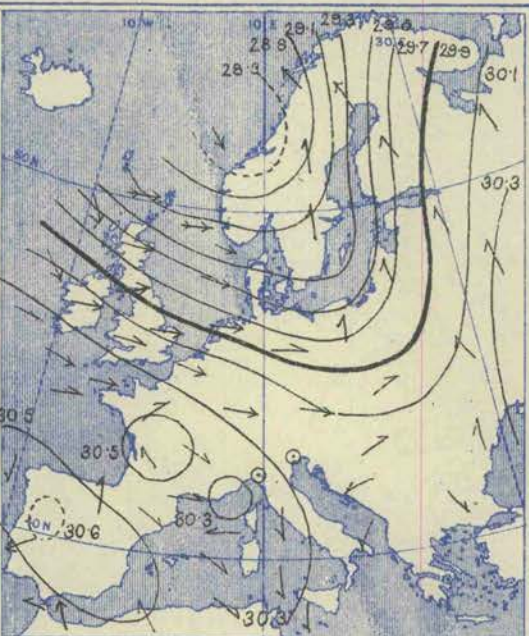


Weather in morning fine and bright over Spain on the one hand and over central Russia on the other—fine over the greater part of England also. Very rough as a whole over the northern and north-western countries, as well as in several parts of France, with some rain in many places, snow in the north and west of Russia and over central Europe. Rain or snow continuing in the last named regions later, but amounts measured were not large. Sky bright over England generally.

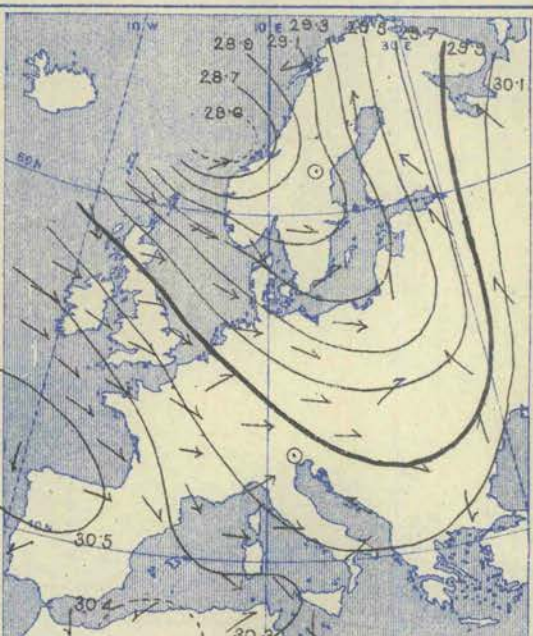
Temperature falling decidedly over our Islands. Morning readings highest, 55° at Algiers, and exceeding 50° on the southern and western shores of the Mediterranean, on the south-west coast of Spain, and on the coasts of Brittany. Lowest, (1) -14° Fahr. at Moscow, +5° at Kharkov, and much below the freezing point all over Russia; 33° at Hérnösand, 35° to 39° over the north and east of Scotland. Rising to between 50° and 55° at our southern and south-western stations later, and to 61° at Perpignan; falling quickly towards night.

Barometer and Wind.

8 a.m.



6 p.m.



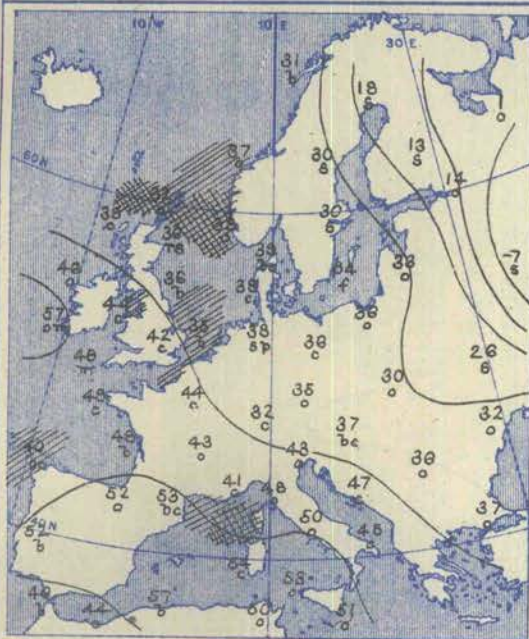
Wind light and anticyclonic over south-western and south-eastern Europe, as well as over central Russia. A large cyclonic circulation of strong winds and gales prevailing over the northern countries. Westerly to North-Westerly over our Islands and the North Sea. Southerly over the Baltic and Finland, South-Easterly over Lapland, but North-North-Westerly at Christiansund. Gale dying down very slowly on our north and north-east coasts later—still blowing hard over the North Sea.

Barometer highest, (1) 30.6 ins. to 30.4 ins. over Spain and the south-west of France; (2) exceeding 30.4 ins. over central Russia. Lowest, (1) 28.8 ins. and less to 29.1 ins. in a complex depression lying over the northern half of Scandinavia and the Shetland Islands, (2) below 30.3 ins. in a small shallow depression over the northern parts of the Mediterranean. Northern depression moving eastwards later and barometer rising fast over Scotland.

Thursday, 17th February.

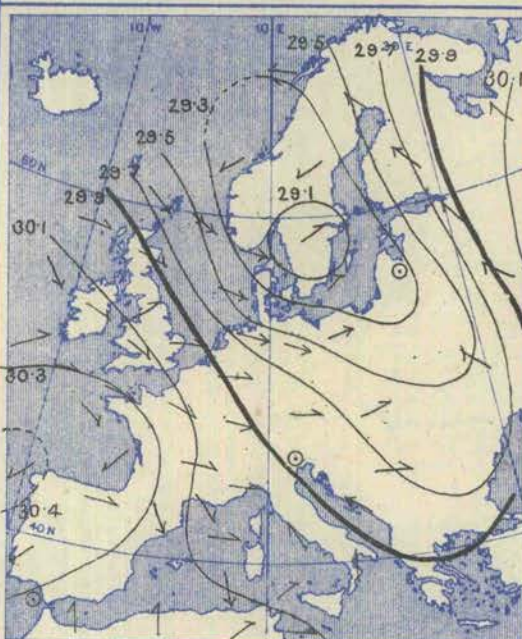
Temperature and Weather.

8 a.m.

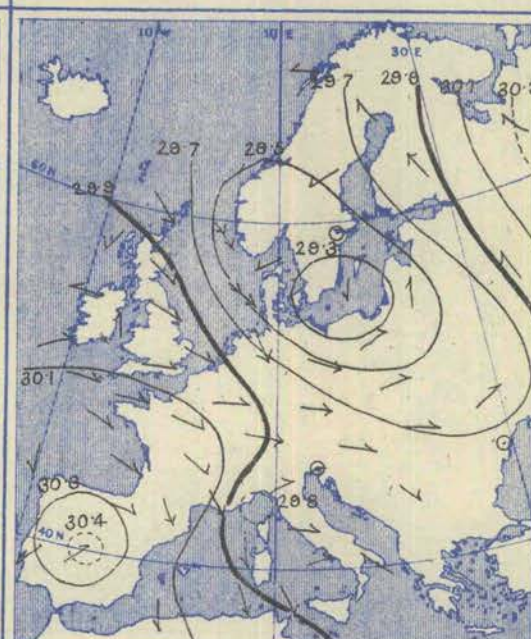


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Algeria, Spain, the greater part of France, and fair over many parts of our Islands; unsettled elsewhere, with showers of cold rain or sleet over Scotland, snow in many parts of Russia and Sweden, fog at Wisby and Karlstad. Cold showers falling later over the United Kingdom and neighbourhood, but amounts measured not large.

Temperature falling unsteadily over the British Islands and France, and more decidedly over the north of Russia—risen over the south of Russia. Morning readings highest, 57° at Algiers, 52° at Lisbon and Biarritz, 51° at Valencia (Ireland) and above 45° on our south-west coasts generally. Lowest, -7° at Moscow, +1° at Archangel, 14° at St. Petersburg, and much below the freezing point over Russia as a whole; 32° at Munich and also at Sumburgh Head. Changing little and fitfully later; falling fast over Scotland at night.

Wind generally North-Westerly over the British Islands and still blowing strongly at some northern stations; Westerly moderate to fresh over central Europe, but South-Easterly over Russia and Finland. Easterly over the northern parts of Scandinavia. A separate cyclonic circulation of moderate winds prevailing over Italy and the northern parts of the Mediterranean. Easterly breezes setting in later over the northern parts of Ireland, but Westerly breezes continuing in the southward.

Barometer in morning highest, (1) 30.4 ins. to 30.2 ins. in an anticyclone lying over Spain, the Bay of Biscay, France and the south-western parts of our Islands; (2) 30.0 ins. and more over the northern and central parts of Russia. Lowest, 29.1 ins. and less to 29.2 ins. in a complex depression over Scandinavia and the Baltic; and about 29.9 ins. in a small shallow system lying between Leghorn and Rome. Rising later over Scandinavia, but falling very briskly over the United Kingdom—most in the north-west.

Friday, 18th February.

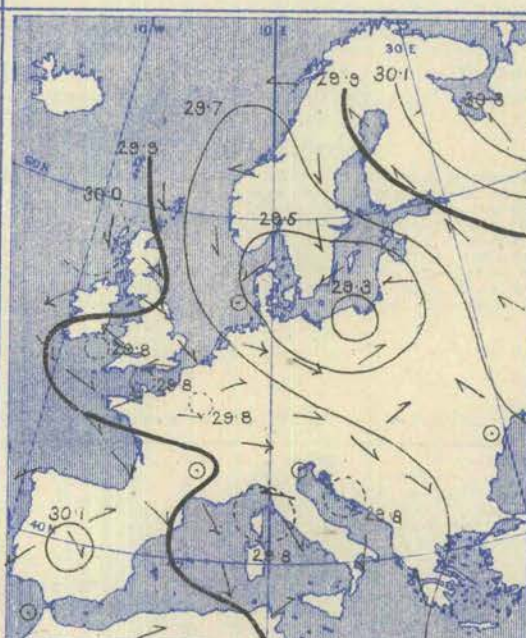
Temperature and Weather.

8 a.m.

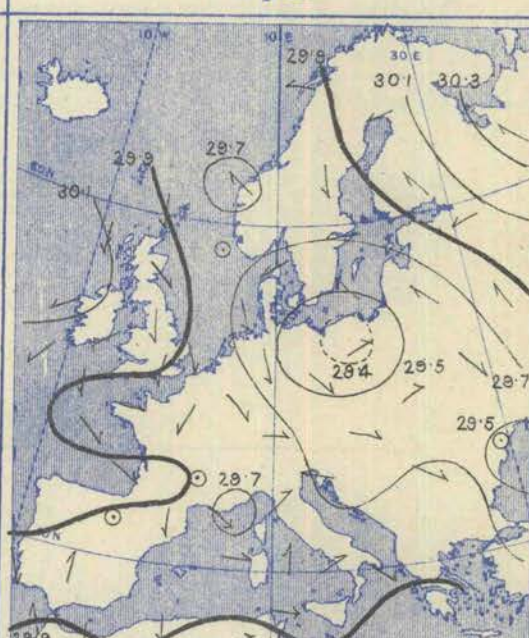


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over Spain and in some parts of Italy and the south of France, as well as in the extreme north of Russia; very dull and unsettled elsewhere, with cold rain in many parts of Ireland, England and France, snow over the greater part of Russia. Showers of cold rain and sleet falling later over Great Britain, the North Sea, the Baltic, and Germany—amounts collected not heavy except near Belfort and Besançon, where they were large.

Temperature risen decidedly over central Russia, fallen elsewhere. Morning readings highest, 57° at Algiers, and above 50° on the south-western shores of the Mediterranean generally; 51° at Scilly, 50° at Lorient and Jersey, 49° at Pembroke and Valencia. Lowest, -6° Fahr at Archangel, +10° at Kuopio, 16° at Moscow, and much below the freezing point over Russia, Finland and Lapland generally; 32° at Sumburgh Head, 33° to 36° at the Scotch stations, 34° at York. Not rising much over our Islands during day, but falling decidedly towards night. Rising over Algeria however to 76° at Oran, 73° at La Calle, and 79° at Biskra; touching 68° at Palermo also.

Wind moderate to light in force and very variable from between North and West in direction over the British Islands and France, with small cyclonic circulations over our western and southern districts; (2) South-Easterly over Russia and Finland, Easterly over Lapland and the north-west of Norway, Northerly over the southern parts of Scandinavia. Cyclonic circulations of considerable energy prevailing over the northern parts of the Mediterranean and Adriatic. Northerly and North-Easterly winds becoming general over our Islands later. Barometer highest, (1) 30.14 ins. over the Azores, and exceeding 30.0 ins. over the west of Scotland, as well as over Spain, the south-west of France and the southern half of the Bay of Biscay; (2) 30.3 ins. and more to 30.0 ins. over the northern half of Russia. Lowest, 29.3 ins. in a well-marked depression over north Germany and the Baltic, and below 29.3 ins. in two shallow systems over the northern parts of the Mediterranean and Adriatic. Gradients very variable both in direction and intensity. Rising later over the British Islands and north-western Europe generally fallen over France and Spain—secondary disturbances falling over central Europe.

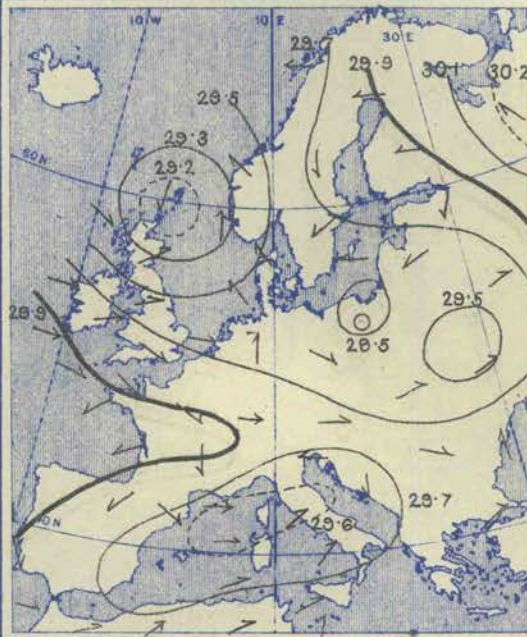
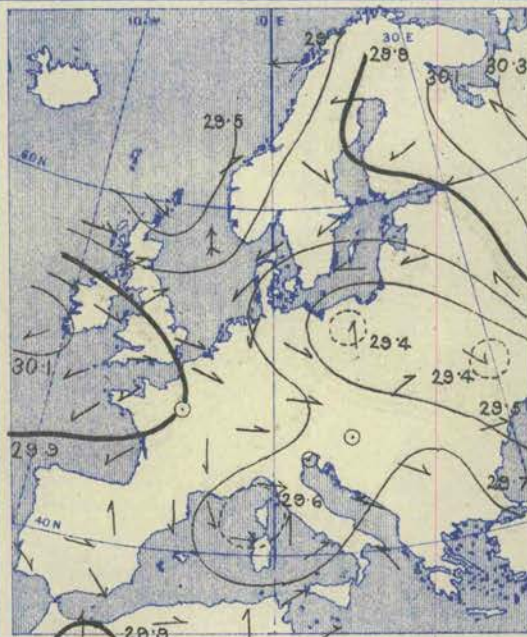
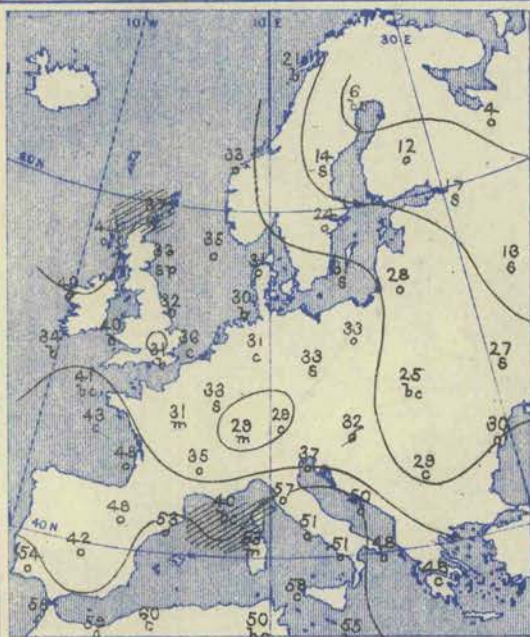
Temperature and Weather.

Barometer and Wind.

8 a.m.

8 a.m.

6 p.m.



Wind (1) light and anticyclonic from North-West over the south-west of our Islands and from North-East or East over the Bay of Biscay and France; also from the Eastward over northern Europe; (2) cyclonic from North-West over the north of Ireland, and from between South and East in the west of Norway; also from East over the Baltic, and from West over central Europe. Strong Westerly winds felt over many of our north-western and northern districts later, with a tendency to back to South-West over the north of England.

Barometer highest, (1) 80.1 ins. and more to 29.9 ins. in a "ridge" stretching from the Atlantic over the west and south-west of our Islands and the north of France; (2) 30.2 ins. and more to 29.9 ins. over the north of Russia and Finland. Lowest, below 29.5 ins. in a depression approaching the Shetland Islands from the northward, and below 29.4 ins. in another over north Germany. Former disturbance continuing to move southwards towards Scotland and the North Sea during the day.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

During the first half of this week the barometer continued highest over the southern and eastern countries of Europe, in which regions the readings varied between 30·5 ins. and 30·6 ins. Large depressions appeared off the coasts of north-western Europe, where the barometer fell to below 29·0 inches, and as a result there was a continuation of South-Westerly (South to West) winds over the United Kingdom and northern Europe, with rain in considerable quantities over the Hebrides and Shetlands, but in very small quantities elsewhere, and temperature was high over our Islands and their neighbourhood.

On Wednesday, however, a change began, as a depression which then lay off the north-west coast of Norway began to spread south-eastwards, and finally travelling in a south-easterly direction, itself reached the southern part of Sweden by Thursday evening, and north Germany on Friday. Secondary systems appeared simultaneously over our Islands, and these also moved south-eastwards. In their rear the thermometer fell very fast, and sharp frosts occurred; rain, sleet, and hail descended over the United Kingdom slowly, while North-Western gales of considerable force set in on our northern and western coasts.

At the close of the week further disturbances were approaching the North Sea from the northward, and the general appearance was rough and inclement.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands) . . .	12.5	?	20	?	WESTBOURNE (Emsworth) . . .	21.7*	+ 3.2	31*	+ 4
STRATHPEFFER SPA	7.4	- 7.6	11	- 12	WATERGATE (Emsworth) . . .	14.7	?	21	?
EDINBURGH	17.3	+ 3.8	20	+ 6	BRIGHTON	18.4	+ 0.4	27	0
MORPETH	18.1	?	27	?	EASTBOURNE	19.7	+ 2.3	29	+ 4
NEWCASTLE-ON-TYNE	11.9	?	18	?	VENTNOR HOSPITAL	20.2	?	29	?
OSWALDKIRK (Yorkshire)	13.3	- 1.4	20	- 2	SOUTHPORT	14.6	?	21	?
SHEFFIELD	11.6	?	17	?	COLWYN BAY	11.2	?	16	?
WORKSOP	11.8	- 2.4	17	- 4	TENBY	10.1*	- 9.9	15*	- 15
THURCASTON (Leicestershire) . .	16.1	+ 2.0	24	+ 3	NEWQUAY	13.1	- 4.1	19	- 6
PLUMSTEAD COMMON	4.7	?	7	?	TORQUAY	24.8*	+ 7.6	35*	+ 10
MARGATE	17.2	+ 0.7	25	+ 1	GUERNSEY	*	*	*	*

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

VOL. XV. No. 8.]
Third Series.

WEEK ENDING SATURDAY, FEBRUARY 26TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE
UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 44.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1893.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	47	22	41.1	30.0	35.5	3 below	Day-deg. 0	Day-deg. - 7	Day-deg. 46	Day-deg. +11	Day-deg. 96	Day-deg. + 44	Day-deg. 177	Day-deg. -149
	1. SCOTLAND, EAST	48	3	40.8	27.6	34.2	4 below	0	-10	55	+14	120	+ 56	193	-156
	2. ENGLAND, N.E.	40	20	42.2	29.0	35.6	3 below	1	-10	46	+13	159	+100	149	-161
	3. ENGLAND, EAST	50	19	44.0	28.1	36.0	3 below	6	- 9	50	+13	120	+ 49	189	-166
	4. MIDLAND COUNTIES	48	19	43.2	27.3	35.3	4 below	3	-10	53	+16	138	+ 69	173	-180
5. ENGLAND, SOUTH	51	22	44.1	31.2	37.7	3 below	6	-10	40	+11	173	+ 82	87	-198	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	47	18	42.7	29.6	36.2	4 below	2	- 8	46	+18	159	+ 82	99	-149
	7. ENGLAND, N.W.	49	17	42.3	30.5	36.4	4 below	1	-10	40	+12	157	+ 89	77	-182
	8. ENGLAND, S.W.	51	18	43.7	30.5	37.1	5 below	5	-13	41	+ 8	207	+ 87	70	-140
	9. IRELAND, NORTH	50	25	44.0	31.0	37.5	3 below	6	- 8	40	+16	189	+ 86	89	-127
	10. IRELAND, SOUTH	51	21	45.1	31.7	38.4	4 below	9	-13	38	+21	262	+106	58	-109
	—CHANNEL ISLANDS	51	35	47.5	37.2	42.4	2 below	23	0	13	+ 3	292	+122	18	- 78

DISTRICTS. (See p. 44.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1893.			For the Week.				From January 2nd, 1893.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	10	0 (average)	50	+ 9	13.4	+ 3.9	19	+ 5	27	+ 6	71	+ 4	16	+ 1
	1. SCOTLAND, EAST	4	6	1 more	32	+ 1	3.2	- 1.8	25	+ 7	37	+10	109	+18	24	+ 4
	2. ENGLAND, N.E.	5	3	1 less	25	- 4	1.9	- 1.8	30	+13	42	+19	112	+20	23	+ 4
	3. ENGLAND, EAST	4	1	2 less	24	- 6	1.7	- 1.8	38	+19	53	+26	111	+ 4	23	+ 1
	4. MIDLAND COUNTIES	3	2	2 less	24	- 5	1.8	- 2.4	33	+16	45	+21	102	+ 3	21	+ 1
5. ENGLAND, SOUTH	4	7	2 more	22	- 6	2.2	- 2.4	25	+ 7	34	+ 8	106	+ 3	22	0	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	9	1 more	40	+ 4	7.9	- 1.5	30	+15	43	+21	94	+17	22	+ 4
	7. ENGLAND, N.W.	3	3	2 less	36	+ 4	5.8	+ 0.6	40	+25	56	+34	105	+21	24	+ 5
	8. ENGLAND, S.W.	4	7	0 (average)	32	- 1	4.1	- 2.6	31	+10	43	+13	110	- 9	22	- 3
	9. IRELAND, NORTH	5	8	2 more	39	+ 2	5.3	- 0.3	34	+17	48	+24	85	-12	18	- 3
	10. IRELAND, SOUTH	4	9	2 more	30	- 5	5.3	- 1.6	34	+15	47	+20	107	- 8	22	- 2
	— CHANNEL ISLANDS	6	9	4 more	35	- 1	2.7	- 3.1	26	0	35	0	146*	+21	31	+ 4

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period was generally cold and changeable. Showers of cold rain, sleet, and hail were very prevalent during the earlier half of the week, and large quantities of sleet and snow fell over our southern and south-western counties, accompanied, in some places, by thunder and lightning. By Friday, however, the conditions had changed, and milder weather became prevalent, with rather heavy rain in the west and north, and slighter amounts elsewhere.

Temperature was below the mean, the deficit ranging from 2° in the Channel Islands, to 5° in England S.W. The highest of the maxima were recorded towards the end of the period, and ranged from 51° in some parts of the southern and south-western districts, to 47° in Scotland N. and W. The lowest of the minima varied greatly in different parts of the Kingdom. In Scotland E. (at Braemar on the 24th) the sheltered thermometer fell to 3° Fahr., in England N.W., (at Manchester on the 21st) to 17°, and in England S.W. and Scotland W. (at Cullompton and Glenlee on the 24th) to 18°. In the other parts of the Kingdom they varied from 19° in England E. and the Midland Counties, to 25° in Ireland N., and to 35° in the Channel Islands.

Rainfall somewhat exceeded the mean in Scotland E. and W., England S., the Channel Islands

and Ireland, and just equalled it in Scotland N. and England S.W. In all other districts the fall was less than the normal, especially in England E. and the Midland Counties.

Bright Sunshine was much above the mean generally. The percentage of the possible duration ranged from 56 in England N.W., and 53 in England E., to 34 in England S., and to 27 in Scotland N.

Barometer and Wind.—During the earlier days of the period a well-marked depression travelled from the north of Scotland to the south-west of England and the west of France. This system caused strong North-Westerly to North-Easterly winds over the western parts of the country, and fresh North-Easterly gales and heavy sleet and snow in the south-west of England. Our eastern and south-eastern districts were at the same time influenced by a shallow system over the North Sea. During the latter part of the week a rather deep depression reached the north of Scotland from the south-westward causing Southerly to South-Westerly gales in the west and north, and fresh or strong winds from the same quarters elsewhere. By the end of the week this disturbance was moving away and the wind moderating and veering to the Westward very generally.

II.—DATA from which the SUMMARY on page 43 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.	
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.								
											Inches.	Inches.					
0. SCOTLAND, N.	Sumburgh Head	45	30	41.7	33.0	37.4	- 0.6	0	32	5	0.94	+ 0.22	*	*	*	*	
	Stornoway	46	26	41.1	31.0	35.6	- 3.4	0	45	6	1.68	+ 0.78	18.2	+ 1.2	26	0	
	Wick	44	27	41.0	31.1	36.1	- 1.9	0	41	5	0.62	+ 0.07	*	*	*	*	
	Lairg	47	22	40.9	28.0	34.5	- 2.2	0	53	5	0.72	0.00	*	*	*	*	
	Glencarron	47	24	40.0	28.4	34.4	- 2.6	0	53	4	1.08	- 0.42	*	*	*	*	
	Fort Augustus	46	22	41.4	28.2	34.8	- 4.0	0	50	3	0.64	- 0.33	18.0	+ 6.8	26	+10	
	Fort William	46	26	41.7	30.3	36.0	- 3.5	0	42	4	1.21	- 0.59	23.4	+ 8.2	33	+11	
1. SCOTLAND, E.	Nairn	45	21	41.1	26.7	33.9	- 4.5	0	57	4	0.64	+ 0.16	*	*	*	*	
	Aberdeen	45	22	40.3	27.7	34.0	- 4.3	0	56	4	0.88	+ 0.36	33.1	+13.1	47	+18	
	Braemar	38	3	35.8	21.1	28.5	- 6.5	0	95	5	1.03	+ 0.33	15.2†	- 4.0†	22†	- 7†	
	Ochertyre	48	21	42.7	28.0	25.4	- 2.4	2	50	4	0.41	- 0.30	*	*	*	*	
	Leith	46	22	44.0	27.6	35.8	- 4.2	6	52	3	0.19	- 0.11	*	*	*	*	
	Marchmont	43	30	40.6	34.3	37.5	0.0	0	32	4	0.61	+ 0.09	29.8	+11.6	43	+16	
2. ENGLAND, N.E.	Alnwick Castle	44	25	41.5	28.6	35.1	- 3.4	0	48	6	0.55	+ 0.07	*	*	*	*	
	Durham	44	20	41.1	27.6	34.4	- 3.6	0	53	7	0.38	- 0.01	28.5	+10.6	40	+14	
	Shields	46	26	42.1	29.3	35.7	- 3.5	0	45	5	0.26	- 0.06	*	*	*	*	
	Scarborough	49	23	42.0	27.8	34.9	- 4.3	0	50	7	?	?	33.7	?	47	?	
	York	47	24	43.9	27.1	35.5	- 3.7	5	53	5	0.22	- 0.13	32.2	+15.9	45	+22	
	Spurn Head	45	20	42.3	33.4	37.9	- 1.1	1	31	3	0.17	- 0.11	*	*	*	*	
3. ENGLAND, E.	Hillington	48	21	43.8	28.7	36.3	- 2.0	5	48	4	0.21	- 0.17	41.0	+21.9	57	+30	
	Yarmouth	45	25	41.6	30.6	36.1	- 2.2	0	41	4	0.10	- 0.27	*	*	*	*	
	Geldeston	48	19	45.5	28.6	37.1	- 1.9	10	50	2	0.11	- 0.20	35.2	+15.4	49	+21	
	Cambridge	50	21	45.7	24.4	35.1	- 4.3	10	65	4	0.17	- 0.13	43.1	+24.2	60	+33	
	Rothamsted	48	21	43.2	28.0	35.6	- 3.2	3	50	6	0.19	- 0.21	31.8	+13.5	44	-17	
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	47	22	44.6	27.7	36.2	- 2.8	7	52	2	0.07	- 0.23	*	*	*	*	
	Loughborough	48	21	44.4	25.4	34.9	- 4.8	7	60	2	0.11	- 0.19	*	*	*	*	
	Stamford (Duddington)	48	19	44.0	25.9	35.0	- 4.2	6	58	3	0.10	- 0.21	*	*	*	*	
	Cheadle	45	23	42.2	28.0	35.1	- 2.9	1	49	2	0.14	- 0.35	*	*	*	*	
	Shirley (near Solihull)	47	22	42.2	26.8	34.5	- 5.1	1	53	3	0.18	?	*	*	*	*	
	Churchstoke	46	23	42.2	26.7	34.5	- 4.5	1	54	3	0.48	- 0.02	45.6	+27.7	63	+ 38	
5. ENGLAND, S.	Hereford	48	23	43.1	29.6	36.4	- 3.6	3	45	2	0.15	- 0.23	*	*	*	*	
	Cirencester	46	22	42.1	27.6	34.9	- 3.9	0	50	3	0.21	- 0.27	24.0	+ 4.3	33	+ 5	
	Oxford	48	23	44.3	28.1	36.2	- 3.8	6	50	3	0.13	- 0.25	26.9	+ 8.9	37	-12	
	London	48	25	44.3	29.9	37.1	- 3.6	6	44	3	0.17	- 0.16	18.6†	+ 7.8†	26†	+11†	
	North Foreland	48	23	43.6	34.3	39.0	- 0.9	4	28	3	0.17	?	*	*	*	*	
	Dungeness	50	22	45.3	29.6	37.5	- 2.3	9	46	4	0.14	- 0.20	*	*	*	*	
6. SCOTLAND W	Hastings (St. Leonards)	49	23	44.1	32.9	38.5	- 1.6	6	33	4	0.23	- 0.20	28.3	+ 6.1	39	+ 8	
	Southampton	51	27	45.8	31.1	38.5	- 2.7	11	41	3	1.24	+ 0.75	28.6	+ 8.1	39	+10	
	Hurst Castle	48	30	45.0	31.6	38.3	- 2.7	8	39	4	2.16	+ 1.76	*	*	*	*	
	Shaftesbury	45	27	40.6	29.3	35.0	- 4.4	0	49	5	0.43	- 0.15	*	*	*	*	
	Laudale (Loch Sunart)	45	23	42.0	28.8	35.4	- 4.7	0	46	4	2.47	+ 0.97	*	*	*	*	
	Glasgow	44	28	41.6	31.5	36.6	- 2.5	0	38	2	0.40	- 0.30	27.0	+14.3	39	+21	
7. ENGLAND, N.W.	Ardrossan	46	28	42.9	30.4	36.7	- 3.6	3	42	3	0.77	+ 0.20	*	*	*	*	
	Glenlee	45	18	42.1	26.0	34.1	- 4.7	0	56	3	1.02	+ 0.05	*	*	*	*	
	Gilcrux (Cumberland)	47	25	43.2	29.1	36.2	- 3.0	3	46	4	0.53	?	28.7	?	40	?	
	Douglas (Isle of Man)	47	26	44.1	31.7	37.9	- 2.8	6	38	4	0.46	- 0.20	34.5	+15.3	49	+22	
	Stonyhurst	43	26	41.0	29.1	35.1	- 3.9	0	48	2	0.28	- 0.49	41.5	+25.3	58	+35	
	Blackpool	47	25	43.4	28.8	36.1	- 3.0	4	47	3	0.37	- 0.05	40.9	+24.2	58	+34	
8. ENGLAND, S.W.	Manchester (Prestwich)	45	17	40.9	26.6	33.8	- 5.1	0	57	4	0.41	- 0.07	26.4	?	37	?	
	Liverpool Obsy. (Bidston)	46	26	41.4	31.3	36.4	- 4.4	0	39	3	0.30	- 0.03	*	*	*	*	
	Llandudno	49	28	43.7	33.5	38.6	- 3.2	5	31	3	0.21	- 0.19	43.8	+25.2	61	+34	
	Holyhead	47	31	43.1	33.9	38.5	- 3.3	3	29	3	0.33	- 0.18	*	*	*	*	
	Llandovery	49	20	44.0	25.4	34.7	- 5.3	6	60	3	0.41	- 0.45	*	*	*	*	
	Pembroke	48	32	44.7	35.0	39.9	- 2.3	8	27	3	0.51	- 0.04	35.4	+13.9	49	+19	
9. IRELAND, N.	Clifton	46	29	41.9	30.5	36.2	- 4.8	0	41	5	0.37	- 0.13	*	*	*	*	
	Arlington (N. Devon)	47	26	41.6	29.7	35.7	- 5.3	0	44	4	0.71	- 0.27	*	*	*	*	
	Cullompton	49	18	43.8	26.7	35.3	- 6.5	5	55	4	1.25	+ 0.53	25.8	+ 6.8	35	+ 7	
	Falmouth	49	32	44.7	34.8	39.8	- 3.9	8	27	5	0.60	- 0.33	31.2	+ 9.1	43	+12	
	Plymouth	51	24	44.7	30.7	37.7	- 4.6	8	41	5	0.61	+ 0.01	31.4	+ 9.9	43	+13	
	Prawle Point	48	29	44.0	31.4	37.7	- 4.1	6	39	5	1.38	+ 0.96	*	*	*	*	
10. IRELAND, S.	Malin Head	47	30	42.4	33.3	37.9	- 4.1	1	31	4	0.88	?	*	*	*	*	
	Londonderry	50	23	45.7	31.9	38.8	- 2.3	10	38	6	0.93	+ 0.40	*	*	*	*	
	Edenfel (Omagh)	46	25	41.9	29.4	35.7	- 3.4	0	44	5	1.02	+ 0.52	*	*	*	*	
	Belmullet	49	30	46.0	34.6	40.3	- 2.7	11	29	7	1.38	+ 0.43	*	*	*	*	
	Markree Castle	48	25	44.9	31.0	38.0	- 2.2	8	41	5	0.79	+ 0.12	25.0	+ 7.9	35	+10	
	Armagh	47	25	43.9	28.8	36.4	- 3.6	5	48	3	0.40	- 0.18	42.5	+25.8	60	+36	
CHANNEL ISLANDS	Donaghadee	48	25	43.9	31.0	37.5	- 3.4	5	40	4	0.41	- 0.04	*	*	*	*	
	Edgeworthstown	46	25	43.0	27.7	35.4	- 4.6	3	51	3	0.86	+ 0.29	*	*	*	*	
	Dublin	51	28	44.7	31.6	38.2	- 3.8	8	39	5	0.33	- 0.12	38.5	+19.5	53	+26	
	Parsonstown	49	28	44.0	28.0	36.0	- 5.0	6	50	4	0.49	+ 0.01	30.4	+12.4	42	+16	
	Kilkenny	48	21	43.7	28.4	36.1	- 5.9	5	49	4	0.58	+ 0.05	*	*	*	*	
	Roche's Point	50	29	46.3	33.6	40.0	- 3.8	12	33	2	0.73	- 0.18	*	*	*	*	
CHANNEL ISLANDS	Valencia	51	32	47.1	35.1	41.1	- 3.7	14	28	7	1.62	+ 0.50	32.3	+12.6	45	+17	
	Killarney	51	24	45.8	30.8	38.3	- 5.6	11	42	5	1.84	?	*	*	*	*	
	Foynes	51	29	44.2	34.1	39.2	- 3.0	6	30	3	0.69	?	*	*	*	*	
	Scilly (St. Mary's)	51	36	48.1	37.4	42.8	- 3.0	25	13	4	0.71	+ 0.13	27.7	?	38	?	
	Jersey	51	35	46.9	37.0	42.0	- 1.2	14	14	7	1.15	+ 0.62	25.9	- 1.1	35	0	

Stations marked *st* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

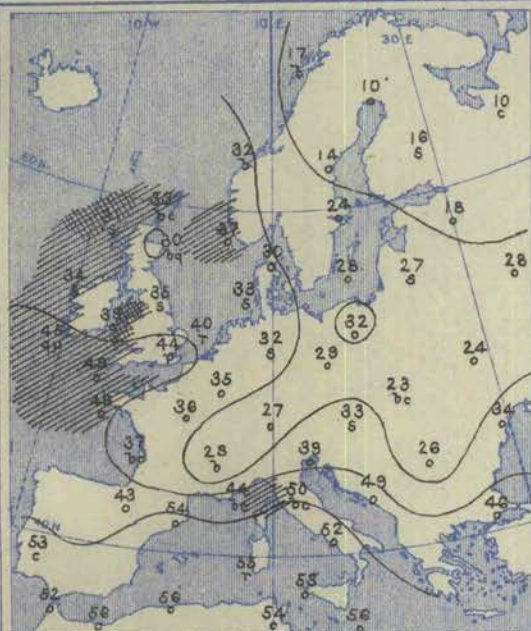
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 20th February.

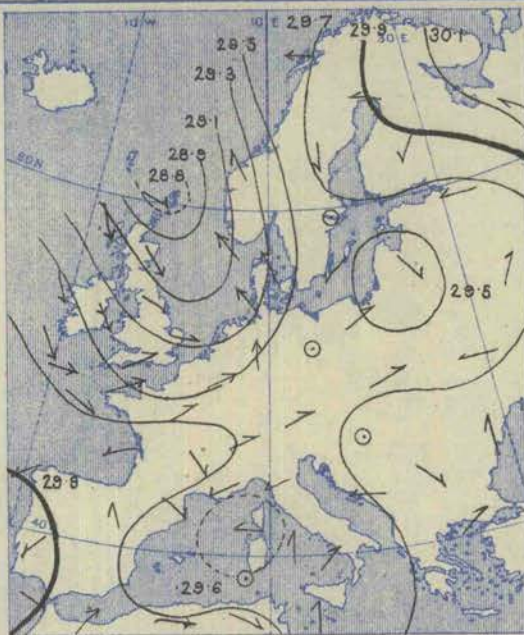
Temperature and Weather.

8 a.m.

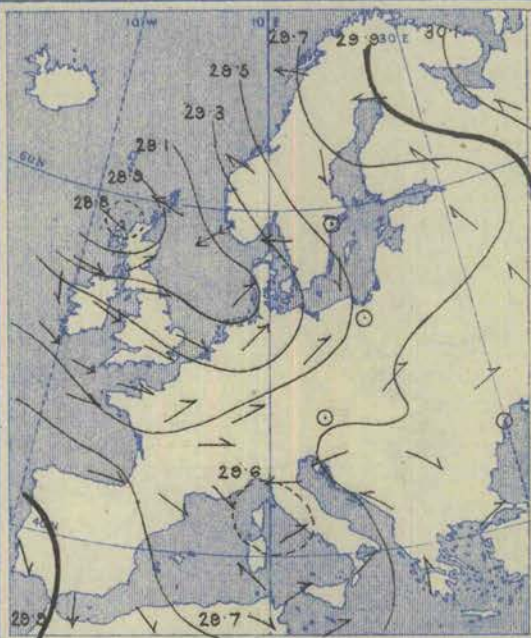


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over many parts of south-eastern Europe, and temporarily so over the north-west of Norway, and at several stations in the British Islands. Very changeable, however, over north-western and central Europe as a whole, and somewhat so over the Mediterranean. Considerable falls of snow, sleet, and hail later over Scotland, Ireland, and the south-west of England, and slight cold showers over the rest of England, with intervals of clear sky at times.

Temperature risen decidedly over England; slightly over the north of France, but fallen fast over Scotland. Morning readings highest, 56° to 50° over the southern side of the Mediterranean, 53° at Lisbon, 49° at Scilly, and above 40° over all the southern parts of Ireland and England, 40° at the Helder. Lowest, 10° to 17° over Lapland, the north of Finland, and below 20° over the northern parts of Russia and Sweden; below the freezing point over central Europe and Scotland. Very sharp frost over the British Islands at night.

Wind (1) Easterly and moderate over northern Europe as a whole, but South-Easterly and strong over Denmark and the southern half of Norway; North-Westerly to Westerly over the British Islands, and moderate to a gale in force; (2) another cyclonic circulation, but of moderate breezes, prevailing over the Mediterranean and south of France, but anticyclonic airs over south-eastern Europe. Backing Westwards over our Islands later, and moderating in force at our north-western stations.

Barometer in morning (1) 30.11 ins. over the Azores, and ranging from 29.9 ins. to 29.7 ins. over both south-western and south-eastern Europe; (2) 30.1 ins. and more to 29.9 ins. over the north of Russia. Lowest, (1) below 29.8 ins. over the Shetland Isles, and below 29.2 ins. in a hollow stretching thence in a southerly direction over the North Sea; (2) below 29.6 ins. over the Riviera and the northern parts of the Mediterranean. Falling very fast over our Islands later—first in the north and north-west, as the depression near the Shetlands began to move south-westwards over Scotland; rising fast over Norway and the Shetlands.

Monday, 21st February.

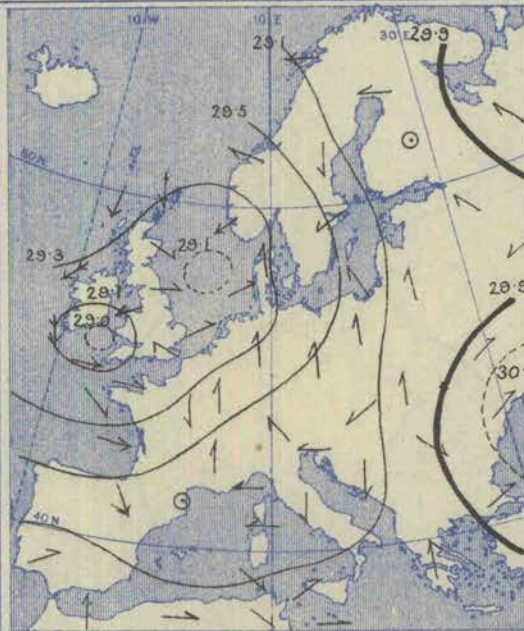
Temperature and Weather.

8 a.m.

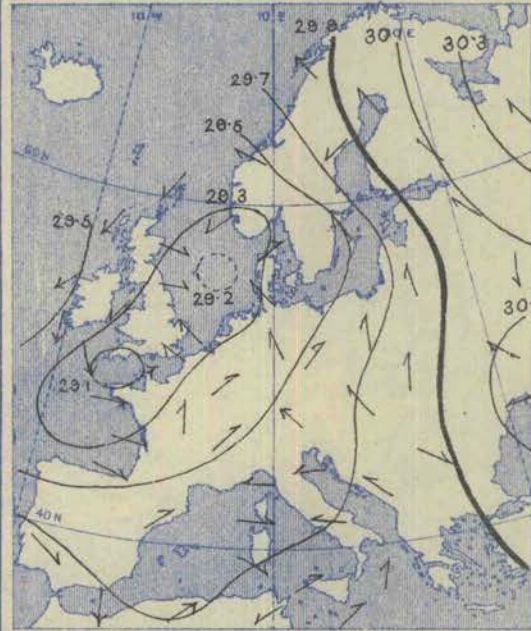


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair over many parts both of south-eastern and northern Europe, dull and very changeable at the north-western, western, and central stations, with snow and cold rain in many parts of our Islands, rain in the north of France, snow in north Germany. Considerable snow later over Sweden, the Shetlands and Hebrides, and large quantities of cold rain and wet snow over the south-western counties of England; considerable falls in many parts of France. Thunder and lightning at Hurst Castle in evening.

Temperature risen a little over Scotland, and decidedly over central France, fallen very fast over England, slightly over Germany. Morning readings highest, 50° and more on the southern side of the Mediterranean and at Lisbon, 49° at Rochefort, 43° at Brest, 42° at Scilly, 39° at Valencia (Ireland). Lowest, (1) 10° at Moscow, and below 20° over the greater part of Russia; (2) 11° at Hernösand, 23° at Karlstad, 31° at Cuxhaven; (3) 23° to 30° over the inland and north-eastern parts of England; 32° at Parsonstown. Not touching 50° in any part of our Islands later, but rising to 52° in the south-west of France, to 55° at Nice, 50° at Perpignan and Nice, 63° at Palermo, 68° at La Calle and 78° at Lesina.

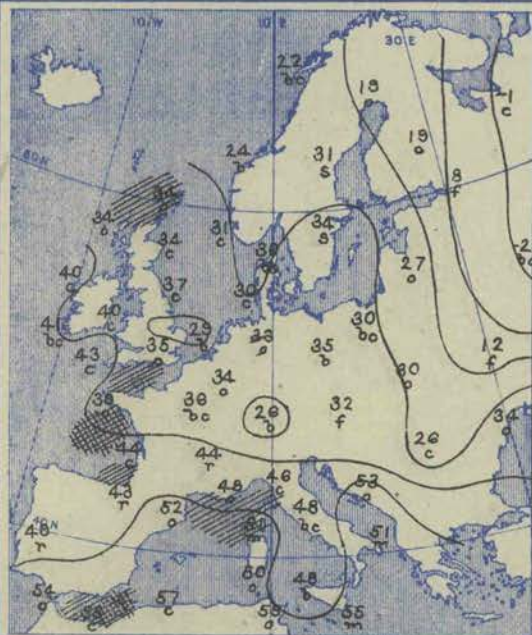
Wind light and variable over all the southern and eastern parts of Europe; but chiefly North-Westerly to Westerly in the west and north of France, Southerly over Holland and Germany, South-Easterly over England; North-Easterly to Easterly over Scandinavia, and North-Easterly to Northerly over Scotland and Ireland (a gale at several of the Irish stations). Shifting from West to North and North-East over Devon and Cornwall later, and blowing a gale for short intervals. North-Easterly and Northerly winds becoming very general over the British Islands, and Easterly wind increasing in force over northern Europe.

Barometer highest, (1) 30.0 ins. and more to 29.9 ins. over the south, and above 29.9 ins. over the north of Russia; (2) exceeding 29.7 ins. over Algeria and the southern half of Spain. Lowest, 29.0 ins. and less to 29.2 ins. in a complex depression covering the North Sea, England and Ireland, the most clearly marked minimum being off the south-east coast of Ireland. This latter system moving south-eastwards later, and barometer rising on all our coasts, falling in the north-west and west of France.

Tuesday, 22nd February.

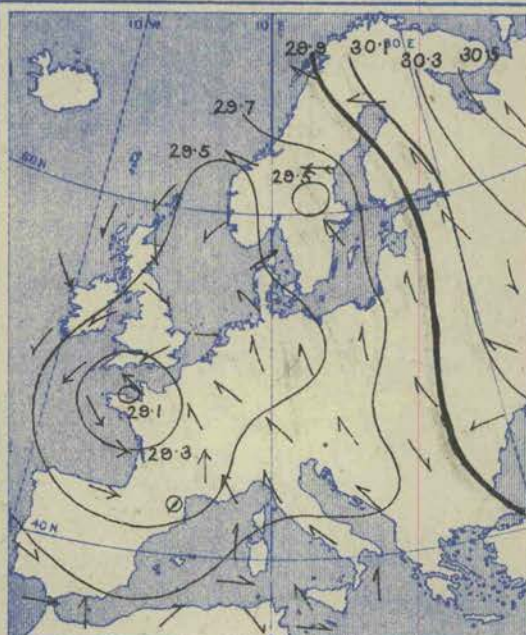
Temperature and Weather.

8 a.m.

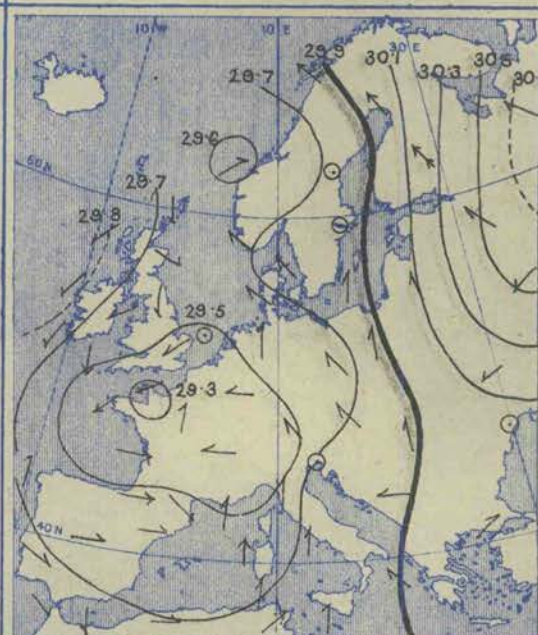


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning clearing up over the greater part of our Islands, but still very unsettled over the south-west of England, Brittany, and the west of France, and not at all settled over any part of western and north-western Europe; snow falling in Sweden; sleet at Hurst Castle; rain at Lisbon and in many parts of France. Heavy rain and thunderstorms reported later in the north-west, west, and south-west of France, a considerable fall of rain and sleet over the western parts of the Channel, as well as in Sweden.

Temperature falling over Ireland, at Karlstad, and over Russia; risen somewhat over England and central Europe. Morning readings highest, 57° at Algiers, 51° at Brindisi, 49° at Lisbon, 43° at Scilly, 41° at Valencia and Malin Head. Lowest, (1) -2° Fahr. at Moscow, -1° at Archangel, +8° at St. Petersburg; hard frost over Russia and Scandinavia generally; (2) 23° to 30° over our south Midland counties, 29° at Parsonstown. Rising later to between 40° and 46° over England, Ireland, and France, and touching 50° at Gap, 52° at Perpignan and 48° at Biarritz. Succeeding night frosty again over our Islands.

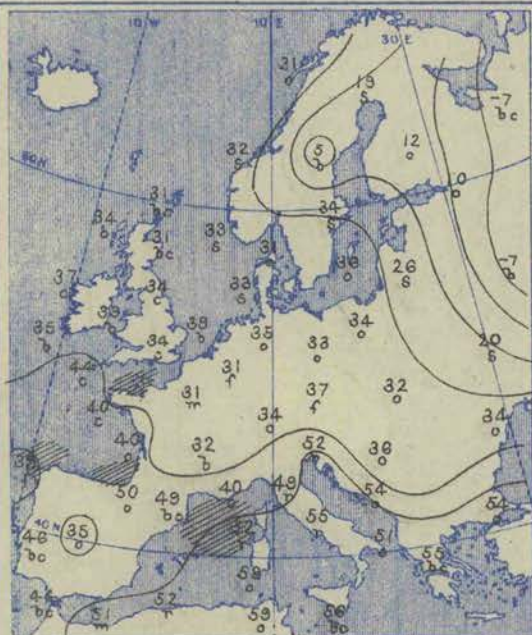
Wind (1) Northerly to North-Easterly over the northern and western parts of our Islands—strong in places—North-Westerly to Westerly strong in the west of France, but South-Easterly at Jersey; variable (cyclonic), but light over the North Sea; (3) South-Easterly to Easterly, strong to a gale, over Finland and the northern parts of Scandinavia. The North-Easterly breeze spreading all over England later, as well as to the Channel Islands and Brittany; Westerly wind blowing very strongly in the south-west of France.

Barometer (1) 30.53 ins. at Archangel, and exceeding 30.0 ins. over almost the whole of Russia; (2) above 29.6 ins. off our extreme north-western and western coasts, and over the south-western half of Spain—rather higher over northern Africa. Lowest, (1) about 29.1 ins. in a depression near St. Malo; below 29.4 ins. in another over the North Sea, and about 29.5 ins. in a third over Sweden (rather to the north-westward of Stockholm). Rising over our Islands and north-western Europe all day; depression near St. Malo moving southwards.

Wednesday, 23rd February.

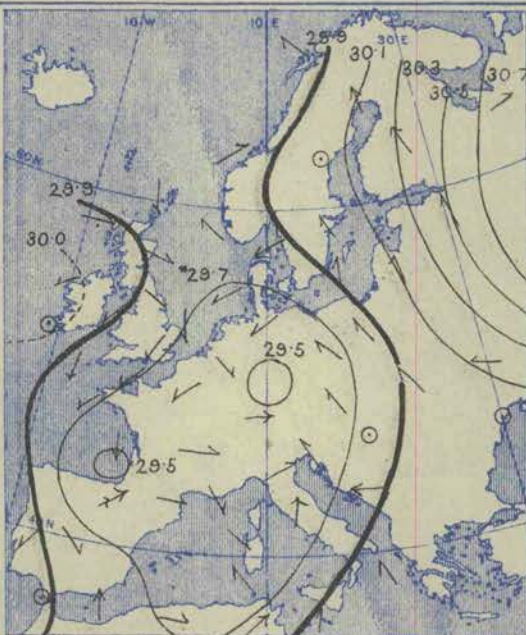
Temperature and Weather.

8 a.m.

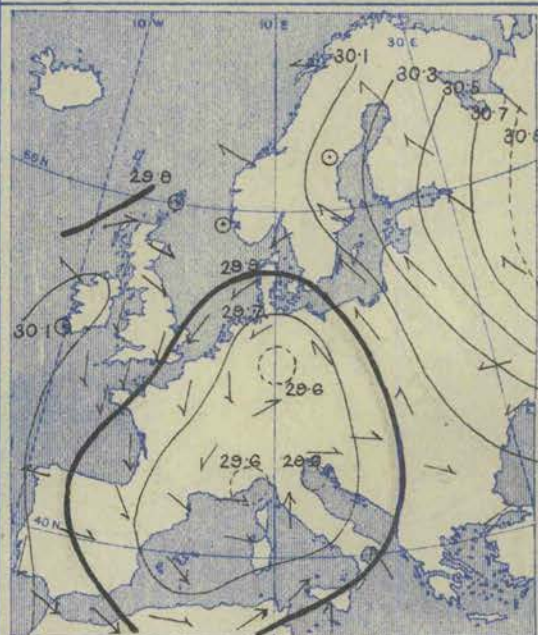


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and dry over Russia on the one hand and over the greater part of our Islands and the south-west of Spain on the other, dull and unsettled elsewhere, with much rain in the south-west and south of France, and the north of Italy, smaller quantities over the extreme south-east of England; snow in many parts of Finland and Scandinavia. Snow falling later in considerable quantities over Sweden, Denmark, and central Europe (0.8 ins. when melted at Munich). Thunderstorms and heavy rains in the extreme south-west of France; much rain over Italy, and slight cold showers in the north-east and south-east of England.

Temperature still low for the time of year over the British Islands. Morning readings highest, 59° at La Calle, and above 50° on the southern shores of the Mediterranean, 49° at Leghorn, 46° at Lisbon, 44° at Scilly, 42° at Jersey. Lowest, (1) -7° Fahr. at Archangel and Moscow, -7° at Kharkov, 10° at St. Petersburg, and much below the freezing point all over Russia, Finland, and the north of Sweden; (2) 30° at Parsonstown, 31° at Sunburgh Head and Nairn, 32° over central England. Falling during succeeding night to 22° over the north-east of Scotland, but not so low over Ireland and England on the previous night or two.

Wind (1) light to fresh in force and anticyclonic (North-West to North-East) in direction over the British Islands; cyclonic over the Continent—generally from North-East in the north-west of France, Westerly and South-Westerly in the south-west, South-Easterly over central and northern Europe, and blowing a gale in some parts of Finland. A separate cyclonic circulation going on over the south of France, Corsica, and the north of Italy. The Northerly current dying down at our western stations, and Southerly breezes beginning to appear at Malin Head.

Barometer highest, (1) 30.78 ins. at Archangel; 30.70 ins. at Moscow, and exceeding 30.0 ins. all over Russia; (2) 30.0 ins. and more over the west of Ireland; 29.9 ins. and more over Portugal and the south-west of Spain. Lowest, about 29.5 ins. in three small depressions—one over western Germany, the second near Breslau, and the third off the coast of the Riviera. Rising over north-western Europe all day, especially over the British Islands and north of France.

Thursday, 24th February.

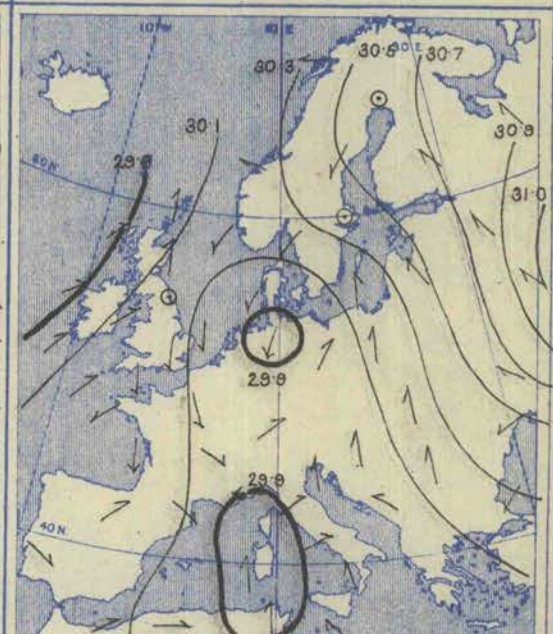
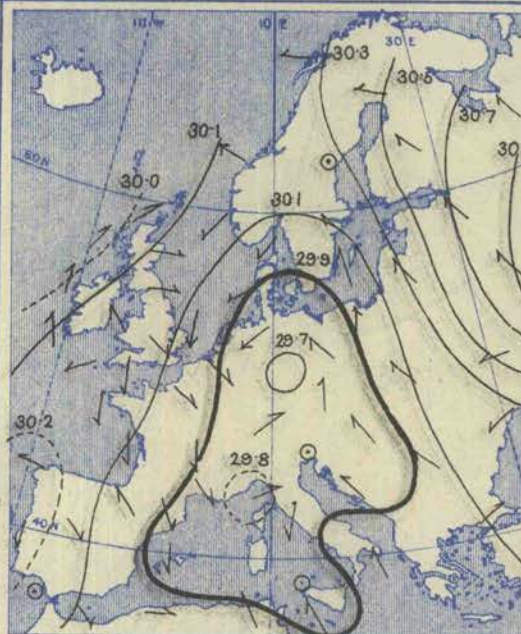
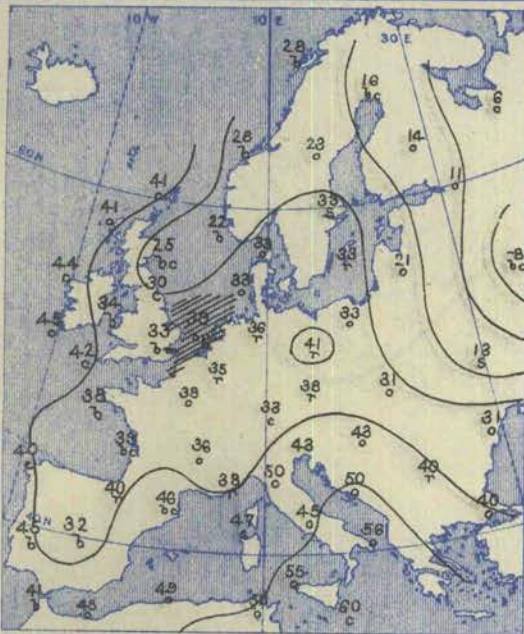
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine (1) over Spain, the north-west of France, nearly the whole of our Islands, and the west of Norway; (2) over the northern and central parts of Russia; unsettled over the Baltic and central Europe, with rain in many places, rainy at Nice also. Further falls of cold rain and sleet over central Europe, the Netherlands, Denmark and Sweden later, and slight fall of warm rain setting in over the west of Ireland.

Temperature continuing low over the greater part of our Islands, but rising decidedly at Valencia and Belmullet. Morning readings highest, 60° at Malta, 56° at Brindisi, 53° at Tunis, 45° at Valencia, Scilly and Jersey, 41° at Stornoway and Sumburgh Head. Lowest, (1) -8° Fahr. at Moscow, +6° at Archangel, 11° at St. Petersburg; hard frost all over Russia and northern Europe; (2) 25° at Aberdeen and Leith, 28° at Loughborough, 30° at Parsonstown. Rising quickly later over Ireland, but falling much below the freezing point over the eastern half of England as night came on.

Wind (1) cyclonic from the South-Eastward over the Baltic, North-Easterly over Denmark and Holland, from North over France and the east and south of England. Almost calm over the west and north of England and east of Scotland, but becoming Southerly over the Hebrides and extreme west of Ireland. The Southerly wind freshening later and spreading eastwards to Wales and the west of Scotland.

Barometer highest, 30.95 ins. at Moscow, exceeding 30.1 ins. all over Russia and Scandinavia, and ranging from 30.2 ins. to 30.1 ins. in a broad zone stretching south-westwards from Norway across our Islands to the Bay of Biscay and Portugal. Lowest, about 29.7 ins. to 29.8 ins. in a depression over Germany and Hungary; below 29.8 ins. over the Riviera, and below 30.0 ins. off the north-west of Scotland. Falling decidedly in Ireland and the north-west of Scotland later, rising over Germany, France and England.

Friday, 25th February.

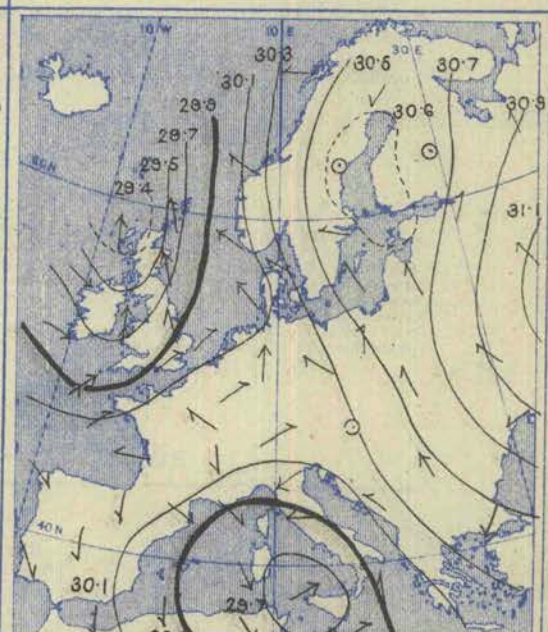
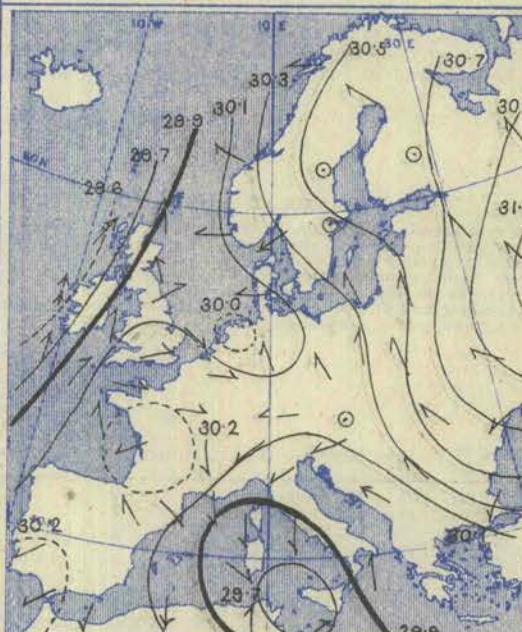
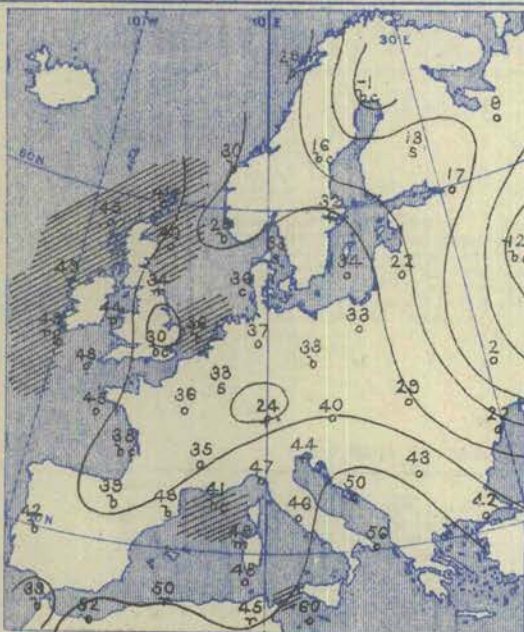
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright over the Spanish Peninsula, France and England, as well as over Russia and Scandinavia; dull, rough and rainy over Ireland and Scotland, unsettled over the Baltic, Germany and the Netherlands, with rain or snow in places, dull and rainy over the Adriatic, Italy and Algeria, with rain in several places. Rain falling later in all parts of our Islands, followed by sleet and hail in the west, snow over northern and central Europe and heavy falls of rain over Tunis and the eastern parts of Algeria and some parts of Italy.

Temperature risen rapidly over the western and northern parts of the Kingdom, fallen over Russia and south-eastern Europe. Morning readings highest, 60° at Malta, 56° at Brindisi, 53° at Oran; 50° to 47° on our extreme south-western coasts, 49° at Belmullet. Lowest, (1) -12° Fahr. at Moscow, -5° at Hermanstadt, +2° at Kiev, and much below the freezing point over Russia and northern Europe generally; 24° at Munich, 32° at Belfort; (2) 26° to 30° over the inland parts of England. Rising later to between 45° and 50° over England and Ireland, and touching 62° at Biarritz and 63° in the Azores and at Rome, 76° at Palermo.

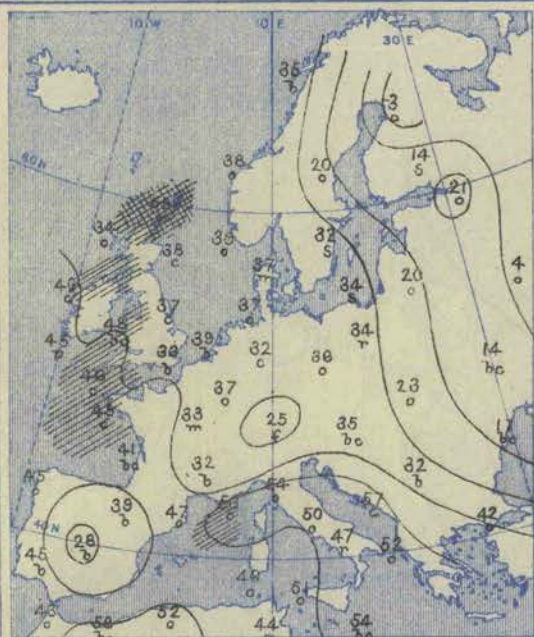
Wind (1) very light and variable over south-western and central Europe; Easterly to Southerly light over Russia, and as a whole anticyclonic in all those regions, as well as over the eastern half of England; (2) Southerly (cyclonic) strong to a gale over Ireland and Scotland; South-Easterly to Easterly light to moderate in Norway; (3) a separate cyclonic circulation prevalent over the Mediterranean, Italy, and the Adriatic, but wind apparently not strong. The Southerly wind blowing still harder in the west and north later, and spreading as a strong to moderate breeze over England.

Barometer highest, 31.1 ins. and more to 30.6 ins. over Russia, and exceeding 30.2 ins. in a ridge extending from Germany across France to Spain, Portugal, and the Bay of Biscay. Lowest, (1) below 29.6 ins. in a depression off our extreme north-west coasts, and (2) below 29.7 ins. in another over the Mediterranean—the central area covering Malta and Sicily, and almost touching Sardinia. The north-western disturbance moving north-eastwards later, and barometer beginning to rise decidedly over Ireland.

Saturday, 26th February.

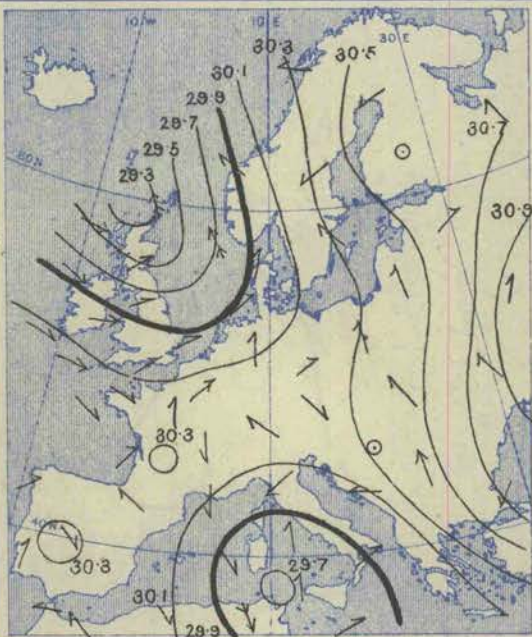
Temperature and Weather.

8 a.m.

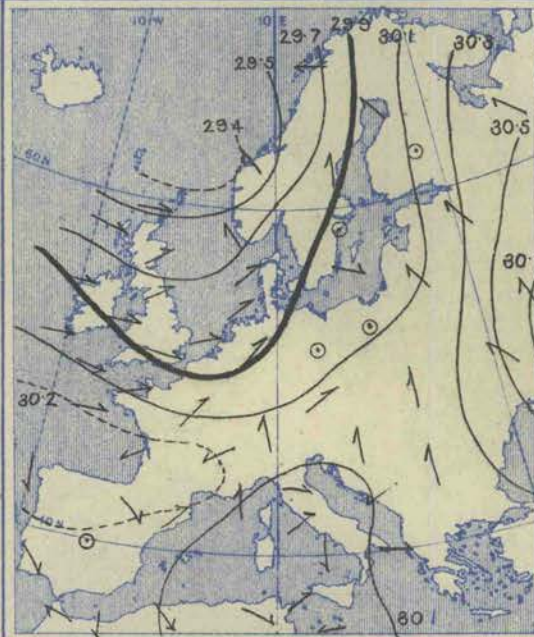


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Spain, many parts of France and the south-west and south of our Islands; also over Russia generally, and south-eastern Europe; very changeable elsewhere, with rain and hail showers over north-western Europe, snow over Finland and Sweden; rain in some parts of Italy. Showers falling later at our northern and western stations (sleet in some places), rain at Biarritz. Snow and sleet on the eastern shores of the North Sea.

Temperature risen temporarily over Norway, and the greater part of England, but changing very fitfully everywhere—fallen in Ireland. Morning readings highest, 58° at Nemours, 57° at Lesina, 52° at Florence; 46° to 40° at our own south-western stations, 42° at Malin Head. Lowest, -6° at Kharkov, -3° at Uleaborg, +4° at Moscow, and much below the freezing point all over Russia, Finland, and the greater part of Sweden; 29° at Munich, 29° at Belfort and 30° at Sweden. Rising later to between 45° and 50° over Ireland and England to 55° at Lorient, 60° at Perpignan and 64° at Nice.

Wind light to moderate in force and anticyclonic in direction over Russia and the greater part of central and south-western Europe—cyclonic both over the north-western countries and also over the Mediterranean. (1) North-Westerly to Westerly, strong to moderate over our Islands, South-Westerly to South-Easterly over the eastern shores of the North Sea, South-Easterly, moderate, over the Baltic, Easterly over Lapland; (2) Easterly and North-Easterly over the north of Italy and south of France, Northerly and North-Westerly over Sardinia and Tunis and blowing a gale at Florence and La Calle.

Barometer highest, 31.14 ins. at Kharkov and exceeding 30.6 ins. over all the central and southern parts of Russia; 30.32 ins. at Madrid and Limoges, and exceeding 30.2 ins. in a broad ridge stretching from Russia across central Europe and France to Spain and the Atlantic. Lowest, below 29.3 ins. in a depression over the Orkneys (gradients steep over Scotland and the West of Norway) and below 29.8 ins. in a depression over the Mediterranean—the centre being between Sardinia and Sicily. Rising over our Islands later, falling over Scandinavia.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: $\cdot$ = blue sky; $\circ$ = detached clouds; $\circ$ = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the greater part of this week the distribution of pressure over Europe and the British Islands has been complex. As a rule the readings have been high (at times exceedingly high) over Russia, and complex depressions have advanced over central and north-western Europe from the north-westward, causing cold North-Westerly winds, snow squalls, and generally inclement weather over our Islands and France, while South-Easterly to Easterly winds have been prevalent over Russia and northern Europe. An exception to these conditions, however, prevailed on Thursday and Friday, when Southerly to South-Westerly winds and gales, accompanied by considerable falls of warm rain set in over our western and northern districts, and brought about a temporary spell of high temperature and humid air. At the close of the week, however, this condition was changing, and with two high-pressure areas—one over Spain and the Bay of Biscay, and the other over the southern half of Russia—the depressions over our northern districts were again spreading southwards over the North Sea. A well-marked depression was observed over the Mediterranean on Friday and Saturday.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 44.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	13.4	?	20	?	WESTBOURNE (Emsworth)	23.0*	+ 0.8	38*	+ 8
STRATHPEFFER SPA	20.2	+ 2.6	29	+ 3	WATERGATE (Emsworth)	24.3	?	33	?
EDINBURGH	23.6	+ 8.4	34	+12	BRIGHTON	27.0	+ 6.0	37	+ 8
MORPETH	30.4	?	43	?	EASTBOURNE	27.3	+ 7.8	37	+10
NEWCASTLE-ON-TYNE	23.0	?	32	?	VENTNOR HOSPITAL	29.5	?	40	?
OSWALDKIRK (Yorkshire)	30.6	+13.6	43	+19	SOUTHPORT	41.1	?	58	?
SHEFFIELD	29.1	?	40	?	COLWYN BAY	43.6	?	61	?
WORKSOP	36.1	+20.1	50	+27	TENBY	33.5*	+10.7	47*	+15
THURCASTON (Leicestershire)	35.3	+19.3	49	+26	NEWQUAY	28.0	+ 6.1	38	+ 7
PLUMSTEAD COMMON	18.3	?	25	?	TORQUAY	32.1*	+13.0	44*	+17
MARGATE	21.4	+ 2.3	29	+ 3	GUERNSEY	24.4*	0.0	33*	0

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

VOL. XV. No 9.]
Third Series.

WEEK ENDING SATURDAY, MARCH 5TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 50.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	45	20	40.4	30.9	35.5	3 below	Day-deg. 0	Day-deg. - 7	Day-deg. 46	Day-deg. +11	Day-deg. 96	Day-deg. + 37	Day-deg. 223	Day-deg. -138
	1. SCOTLAND, EAST	49	13	42.1	31.6	36.7	1 below	0	- 11	35	- 4	120	+ 45	228	-160
	2. ENGLAND, N.E.	48	30	44.0	33.9	38.8	0 (average)	6	- 6	29	- 3	165	+ 94	178	-164
	3. ENGLAND, EAST	51	27	45.4	32.5	38.8	1 below	10	- 6	35	- 1	130	+ 43	224	-167
	4. MIDLAND COUNTIES	52	25	45.5	33.0	39.1	0 (average)	10	- 5	33	- 2	148	+ 54	206	-182
	5. ENGLAND, SOUTH	54	27	46.5	34.2	40.1	0 (average)	13	- 5	29	+ 1	186	+ 77	116	-197
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	47	25	43.3	33.3	38.1	2 below	4	- 7	30	+ 3	163	+ 75	129	-146
	7. ENGLAND, N.W.	49	28	44.3	35.3	39.7	1 below	6	- 6	24	- 3	163	+ 83	101	-185
	8. ENGLAND, S.W.	53	24	46.7	35.1	40.7	1 below	13	- 6	26	+ 4	220	+ 81	96	-136
	9. IRELAND, NORTH	49	26	43.9	33.3	38.5	2 below	5	-10	31	+ 7	194	+ 76	120	-120
	10. IRELAND, SOUTH	50	24	45.8	35.4	40.4	3 below	11	-12	24	+ 7	273	+ 94	82	-102
	-CHANNEL ISLANDS	52	35	48.2	40.5	44.2	0 (average)	22	- 2	4	- 6	314	+120	22	- 84

DISTRICTS. (See p. 50.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 12	10ths of in. 2 more	56	+10	14.6	+ 4.2	16	- 3	21	- 6	87	+ 1	16	0	
	1. SCOTLAND, EAST	5	5	1 less	37	+ 2	3.7	- 1.8	29	+ 9	39	+11	138	+26	26	+ 5	
	2. ENGLAND, N.E.	5	4	1 more	30	- 3	2.2	- 1.6	35	+17	47	+21	147	+37	27	+ 7	
	3. ENGLAND, EAST	5	4	0 (average)	29	- 5	2.1	- 1.7	28	+ 7	37	+ 7	139	+10	25	+ 2	
	4. MIDLAND COUNTIES	4	3	0 (average)	28	- 4	2.1	- 2.4	28	+ 8	37	+10	130	+12	23	+ 2	
	5. ENGLAND, SOUTH	5	3	1 less	27	- 4	2.5	- 2.5	31	+10	41	+13	137	+14	25	+ 2	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	8	0 (average)	45	+ 6	8.7	- 1.5	29	+13	40	+17	123	+30	25	+ 6	
	7. ENGLAND, N.W.	4	5	0 (average)	40	+ 5	6.3	+ 0.7	37	+20	50	+25	142	+41	28	+ 8	
	8. ENGLAND, S.W.	5	6	0 (average)	37	+ 3	4.7	- 2.6	39	+15	51	+18	149	+ 6	26	0	
	9. IRELAND, NORTH	6	10	5 more	45	+ 4	6.8	+ 0.1	33	+14	44	+19	118	+ 3	22	0	
	10. IRELAND, SOUTH	5	5	2 less	35	- 3	5.8	- 1.8	38	+17	51	+22	145	+ 8	26	+ 1	
	- CHANNEL ISLANDS	7	7	2 more	42	+ 2	3.4	- 2.9	31	+ 3	41	+ 2	177	+24	32	+ 4	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather was again cold and changeable generally, especially during the latter part of the week. Showers of cold rain, sleet, or snow were very prevalent in all parts of the Kingdom, but were frequently separated by very bright intervals.

Temperature was rather below the mean in most districts, but just equalled it in the Midland Counties, England N.E. and S., and the Channel Islands. The highest of the maxima were recorded during the earlier half of the week, and ranged from 54° in England S., and 53° in England S.W., to 47° in Scotland W., and 45° in Scotland N. The lowest of the minima were registered on rather irregular dates; they ranged from 13° in Scotland E. (at Braemar on March 5th), to 20° in Scotland N., to 30° in England N.E., and to 35° in the Channel Islands.

Rainfall was considerably more than the mean in Ireland N., and rather so in Scotland N., England N.E., and the Channel Islands. In all other districts, however, the fall either equalled or was a little less than the normal.

Bright Sunshine was much above the normal in all districts except the Channel Islands, where the excess was slight, and in Scotland N., where there was a deficit. The percentage of the possible duration ranged from 51 in England S.W. and Ireland S., 50 in England N.W., and 47 in England N.E., to 37 in England E. and the Midland Counties, and to 21 in Scotland N.

Barometer and Wind.—During the earlier half of the week a depression travelled rather slowly from the north of Scotland to Denmark, and secondary disturbances moved south-eastwards over our Islands. The winds were consequently North-Westerly very generally, blowing freshly or strongly, and occasionally reaching the force of a gale in the west and north-west. On the disappearance of this system the barometer rose and the wind moderated and became more Northerly, but by the end of the period another fall of the barometer had set in in the north-west, and the wind in that district had backed to the South-Westward, and was increasing in force.

II.—DATA from which the SUMMARY on page 49 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42° F.	Below 42° F.	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	44	30	41.1	33.1	37.0	- 0.9	0	35	5	0.66	- 0.03	*	*	*
	Stornoway	44	29	40.3	31.4	35.7	- 3.2	0	44	7	1.65	+ 0.77	24.4	+ 5.5	33
	Wick	45	25	41.9	30.4	36.0	- 2.3	0	42	6	0.35	- 0.18	*	*	*
	Lairg	44	20	40.2	28.3	34.1	- 2.7	0	55	7	1.53	+ 0.83	*	*	*
	Glencarron	41	22	38.0	29.2	33.5	- 3.5	0	60	7	2.27	+ 0.85	*	*	*
	Fort Augustus	43	25	40.2	31.0	35.5	- 3.3	0	46	5	0.70	- 0.22	7.3	- 5.9	10
	Fort William	43	29	41.0	33.2	37.0	- 2.6	0	35	7	0.95	- 0.73	9.3	- 8.0	13
1. SCOTLAND, E.	Nairn	47	27	41.4	30.7	35.9	- 2.8	0	43	7	0.51	+ 0.04	*	*	*
	Aberdeen	46	28	42.0	32.4	37.1	- 1.5	0	34	5	0.98	+ 0.48	36.7	+14.7	50
	Braemar	39	13	36.4	27.2	31.7	- 3.1	0	72	5	0.62	- 0.03	21.0†	- 0.8†	28†
	Ochertyre	47	24	43.3	31.6	37.3	- 0.7	4	36	4	0.15	- 0.47	*	*	*
	Leith	49	30	46.1	32.6	39.2	- 0.7	11	35	3	0.03	- 0.25	*	*	*
2. ENGLAND, N.E.	Marchmont	45	33	43.1	34.9	38.9	+ 1.3	3	25	4	0.45	- 0.05	34.0	+14.0	46
	Alnwick Castle	46	31	43.2	33.7	38.3	- 0.3	3	29	6	0.61	+ 0.13	*	*	*
	Durham	46	31	43.8	32.6	38.0	- 0.3	5	33	4	0.46	+ 0.06	36.6	+16.6	49
	Shields	48	31	44.4	33.7	38.9	- 0.8	7	30	4	0.41	+ 0.09	*	*	*
	Scarborough	48	33	45.1	34.4	39.6	- 0.2	9	22	5	0.47	+ 0.10	31.8	?	42
3. ENGLAND, E.	York	48	30	44.9	33.3	38.9	- 0.8	8	31	5	0.22	- 0.11	37.1	+18.3	49
	Spurn Head	45	34	42.7	35.9	39.2	- 0.2	2	21	6	0.42	+ 0.17	*	*	*
	Hillington	51	27	45.2	31.8	38.3	- 0.5	9	37	7	0.48	+ 0.11	29.8	+ 8.6	43
	Yarmouth	47	32	43.7	33.9	38.7	0.0	5	29	5	0.27	- 0.08	*	*	*
	Geldeston	49	27	45.3	31.5	38.2	- 1.4	9	38	5	0.41	+ 0.11	29.8	+ 7.7	39
4. MIDLAND COUNTIES	Cambridge	50	30	47.3	31.9	39.4	- 0.4	15	38	3	0.36	+ 0.08	27.0	+ 6.0	36
	Rothamsted	50	30	45.3	33.5	39.2	- 0.1	9	31	4	0.30	- 0.08	24.2	+ 3.2	32
	Bawtry (Hesley Hall)	48	27	45.7	32.6	39.0	- 0.6	10	34	3	0.34	+ 0.06	*	*	*
	Loughborough	52	31	46.4	34.3	40.2	+ 0.4	12	29	4	0.35	+ 0.04	*	*	*
	Stamford (Duddington)	50	29	46.4	32.9	39.5	- 0.3	12	34	4	0.19	- 0.09	*	*	*
	Cheadle	48	30	43.8	32.3	37.9	- 0.3	5	34	5	0.61	+ 0.14	*	*	*
	Shirley (near Solihull)	50	30	43.5	33.7	38.5	- 1.3	4	29	5	0.19	?	*	*	*
5. ENGLAND, S.	Churchstoke	49	28	44.9	31.9	38.2	- 1.1	8	36	5	0.49	+ 0.05	32.8	+12.8	41
	Hereford	49	29	46.6	33.9	40.1	+ 0.1	13	31	4	0.31	- 0.03	*	*	*
	Cirencester	50	25	45.6	32.1	38.7	- 0.4	10	36	5	0.13	- 0.31	30.6	+ 8.9	40
	Oxford	50	29	46.7	33.0	39.7	- 0.4	13	24	4	0.26	- 0.07	27.4	+ 7.3	36
	London	53	30	46.3	33.7	39.8	- 1.2	12	31	4	0.58	+ 0.28	20.9†	+ 8.1†	28†
	North Foreland	51	32	45.1	34.3	39.5	- 0.6	9	28	3	0.24	?	*	*	*
	Dungeness	51	27	47.3	32.7	39.8	- 0.1	15	35	4	0.16	- 0.15	*	*	*
6. SCOTLAND W	Hastings (St. Leonards)	50	30	45.6	33.8	39.5	- 1.2	10	30	4	0.33	- 0.07	36.2	+11.2	48
	Southampton	54	31	49.2	35.0	41.9	+ 0.2	20	28	6	0.26	- 0.19	35.2	+12.3	46
	Hurst Castle	51	32	47.6	36.3	41.8	+ 0.7	16	23	4	0.15	- 0.23	*	*	*
	Shaftesbury	49	30	44.3	33.5	38.7	- 0.9	6	30	7	0.45	- 0.06	*	*	*
	Laudale (Loch Sunart)	44	28	41.9	32.4	37.0	- 3.4	0	35	7	1.28	- 0.12	*	*	*
	Glasgow	44	29	41.6	33.0	37.2	- 1.8	0	34	4	0.28	- 0.31	18.4	+ 4.2	25
	Ardrossan	46	31	44.3	34.6	39.3	- 0.9	6	26	5	0.52	+ 0.03	*	*	*
7. ENGLAND, N.W.	Glenlee	45	25	43.0	31.8	37.2	- 1.9	3	35	5	1.12	+ 0.27	*	*	*
	Gilcrux (Cumberland)	45	28	43.1	32.6	37.7	- 1.6	3	33	6	0.52	?	26.3	?	36
	Douglas (Isle of Man)	47	29	46.0	35.1	40.4	- 0.3	11	26	5	1.16	+ 0.58	43.4	+21.4	58
	Stonyhurst	44	29	42.9	33.0	37.8	- 1.1	3	31	3	0.64	- 0.08	38.4	+19.9	51
	Blackpool	49	28	46.4	34.0	40.0	+ 0.6	12	30	3	0.24	- 0.16	38.5	+20.0	51
	Manchester (Prestwich)	45	29	43.4	32.6	37.8	- 1.1	4	32	3	0.69	+ 0.24	28.6	?	38
	Liverpool Obsy. (Bidston)	46	33	43.6	36.7	40.1	- 0.8	4	19	5	0.28	- 0.02	*	*	*
8. ENGLAND, S.W.	Llandudno	48	35	44.6	37.6	41.0	- 0.9	7	17	5	0.34	- 0.06	38.9	+18.5	52
	Holyhead	48	36	45.1	38.0	41.5	- 0.4	9	16	5	0.77	+ 0.28	*	*	*
	Llandovery	50	24	47.0	31.7	39.1	- 1.7	14	38	6	1.15	+ 0.35	*	*	*
	Pembroke	48	34	45.4	37.3	41.2	- 0.9	10	18	6	0.76	+ 0.25	35.5	+11.3	47
	Clifton	50	31	45.0	35.6	40.2	- 1.1	8	24	3	0.27	- 0.21	*	*	*
	Arlington (N. Devon)	49	28	45.3	34.6	39.8	- 1.0	9	27	6	0.60	- 0.30	*	*	*
	Callington	53	28	47.3	33.7	40.3	- 1.8	15	31	6	0.33	- 0.37	41.5	+19.7	55
9. IRELAND, N.	Falmouth	51	33	47.1	37.2	42.0	- 1.7	14	13	6	0.86	- 0.02	42.1	+17.3	55
	Plymouth	51	30	47.6	35.4	41.3	- 1.3	16	26	3	0.73	+ 0.18	37.1	+12.8	49
	Prawle Point	50	30	48.7	34.9	41.6	- 0.3	19	28	6	0.30	- 0.10	*	*	*
	Malin Head	44	34	42.3	35.7	38.9	- 3.0	1	22	6	1.00	?	*	*	*
	Londonderry	46	29	43.3	33.5	38.3	- 3.0	4	30	7	1.38	+ 0.88	*	*	*
	Edenfel (Omagh)	45	30	42.4	33.0	37.6	- 2.0	1	31	6	0.90	+ 0.41	*	*	*
	Belmullet	48	32	45.4	35.6	40.4	- 2.6	10	24	7	1.14	+ 0.24	*	*	*
10. IRELAND, S.	Markree Castle	49	28	44.9	32.9	38.7	- 1.7	8	32	6	1.50	+ 0.85	34.0	+15.0	45
	Armagh	47	28	44.3	31.4	37.7	- 2.1	6	38	6	0.74	+ 0.18	31.7	+13.2	42
	Donaghadee	47	31	44.7	34.0	39.2	- 1.7	8	29	5	0.65	+ 0.24	*	*	*
	Edgeworthstown	48	26	44.3	30.6	37.3	- 2.9	6	40	?	?	?	*	*	*
	Dublin	49	31	45.7	34.5	39.9	- 2.3	10	27	5	0.24	- 0.18	41.3	+20.2	55
	Parsonstown	48	26	45.3	32.9	38.9	- 2.0	9	33	5	0.25	- 0.23	39.0	+19.0	52
	Kilkenny	49	27	44.7	33.9	39.1	- 3.2	8	29	4	0.10	- 0.39	*	*	*
CHANNEL ISLANDS	Roche's Point	50	33	46.4	37.1	41.6	- 2.0	12	19	5	0.37	- 0.48	*	*	*
	Valencia	49	34	47.6	39.1	43.2	- 1.5	21	8	7	0.96	- 0.09	34.5	+12.1	45
	Killarney	50	24	46.4	35.1	40.6	- 3.4	12	26	6	1.02	?	*	*	*
	Foynes	48	30	44.6	35.0	39.7	- 2.7	7	26	5	0.53	?	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	51	35	48.3	40.4	44.2	- 1.1	22	4	7	0.62	+ 0.07	33.0	?	43
	Jersey	52	35	48.0	40.6	44.2	+ 0.6	21	4	7	0.75	+ 0.24	30.5	+ 2.8	40

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

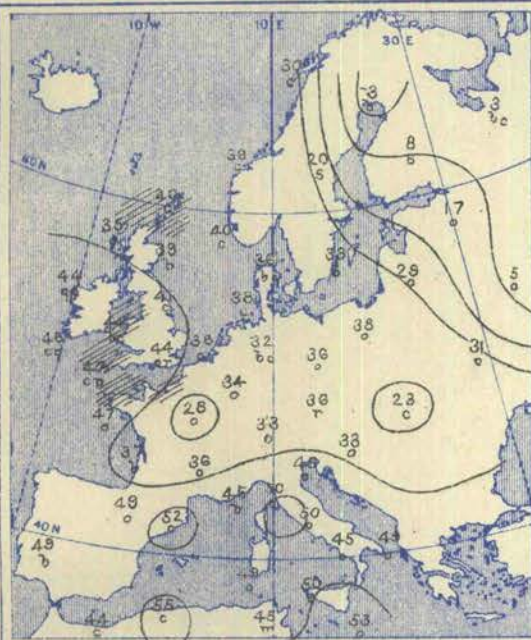
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 27th February.

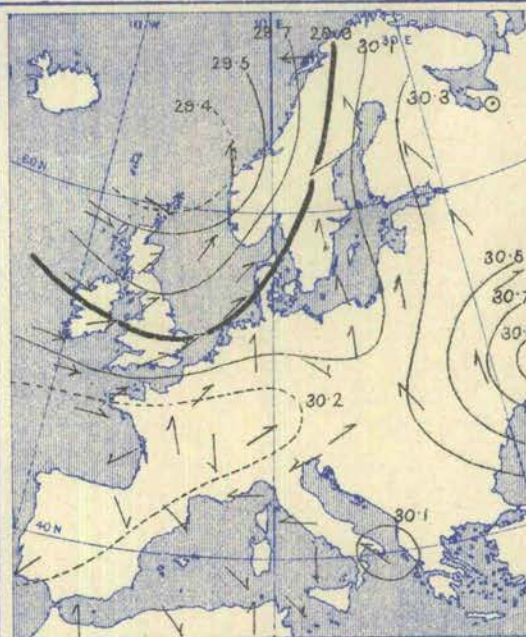
Temperature and Weather.

8 a.m.

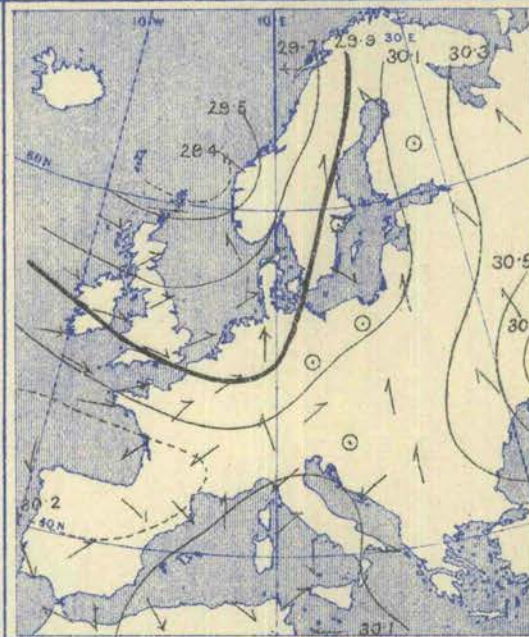


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over Scotland and the north-east of England, as well as at some stations in northern Europe, fair on the Norwegian coast and in the south of Russia, cloudy or overcast elsewhere, rainy over the southern parts of the United Kingdom and the eastern shores of the North Sea—snow falling in Sweden and Moscow. Cold showers falling later over the greater part of the United Kingdom, larger quantities over the countries lying to the eastward of the North Sea, as well as in some parts of Russia and the north of Italy; thunder reported at Cambridge.

Temperature in morning highest, 55° at Algiers, and 50° or more at Barcelona, Marseilles, Leghorn, and Rome, 49° at Biarritz, 45° at Valencia (Ireland), 44° at Belmullet, Holyhead, and in London, 40° at Skudenesnaes. Lowest, (1) -8° at Kharkov, -3° at Uleaborg, +3° at Archangel, 5° at Moscow, and much below 32° over Russia generally; (2) 27° at Le Mans, 25° at Paris, 31° at Wiesbaden, 32° at Belfort and Vienna. Exceeding 50° at one or two of our own stations later, touching 63° over some of the southern parts of France, 65° at Palermo, and 72° at Biskra (Algeria); falling fast over our Islands at night.

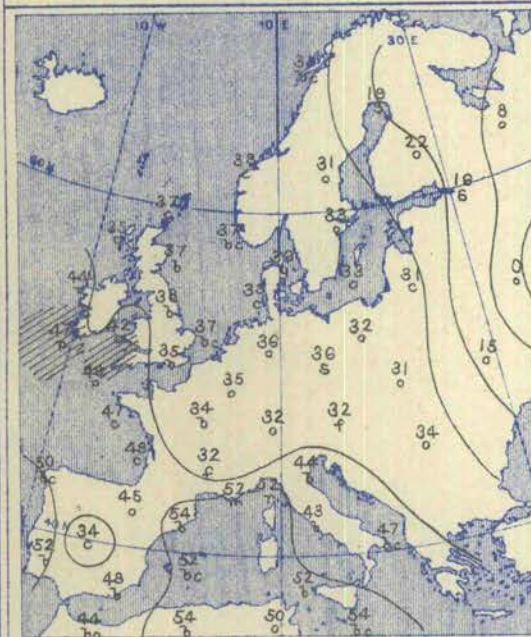
Wind (1) light and anticyclonic over many of the western, central, and eastern parts of Continental Europe; (2) moderate (but cyclonic) from between West-North-West and West-South-West over the British Islands, and from between South-West and South on the eastern shores of the North Sea; Southerly to Easterly over the northern parts of Scandinavia and Finland. A cyclonic circulation of light breezes prevalent over the Atlantic. Becoming more westerly over our Islands later; little change elsewhere.

Barometer highest, (1) 31.0 ins. at Kharkov, 30.5 ins. at Moscow, and exceeding 30.1 ins. all over Russia; (2) 30.2 ins. and more to 30.1 ins. over Spain and France. Lowest, (1) below 29.4 ins. in a depression lying partly over the Shetland Islands, and partly off the west of Norway; (2) about 30.0 ins. in a shallow system over the northern parts of the Mediterranean; (3) below 30.1 ins. in a "hollow" over north Germany. An ill-formed "V"-shaped system passing across England during the day, and barometer rising slightly in its rear.

Monday, 28th February.

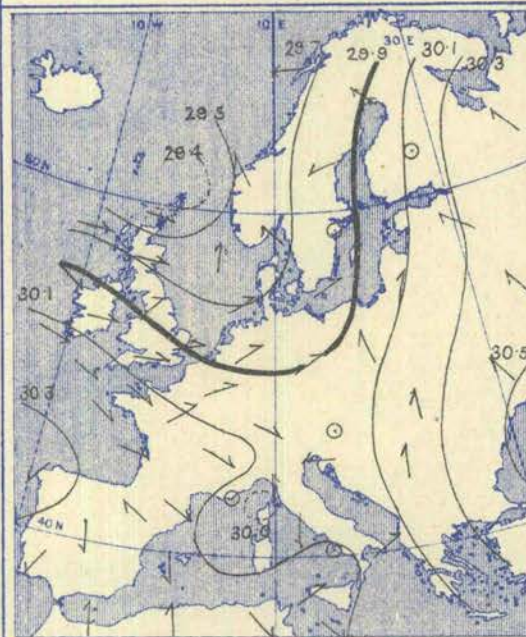
Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the Mediterranean, Spain, the west and north of France, the greater part of our Islands, and the west of Norway—clear and bright at most of the stations; not at all settled over the other parts of western or central Europe; rain falling in the west of Ireland, sleet at Wick, snow at many stations in northern Europe, as well as at Berlin and Vienna. Sleet or snow falling later over the Baltic and Sweden, sleet, hail, and rain over Scotland and the north of Ireland, rain over our western and northern districts generally; lightning seen at Wick, halos in several places; a fall of rain over the south of France also.

Temperature in morning highest, 54° at Malta and Algiers, above 52° at Lisbon, 50° at Corunna, 47° to 45° on our extreme south-western coasts. Lowest, 0° (zero) Fahr. at Kharkov and Moscow, 8° at Archangel, and much below 32° over Russia generally; below 40° over Scandinavia and central Europe; 32° at Lyons, 34° at Paris, 33° at Wick, 34° at Nairn, 35° at Oxford and in London. Rising later to 45° or more over nearly the whole of our Islands, and touching 50° or 51° at our southern stations, 52° at Paris, 55° at Nice, 58° at Perpignan.

Wind (1) North-Westerly to Westerly, fresh to moderate, over the British Islands and France. South-Westerly to Southerly over Germany, South-Easterly to Easterly over northern Europe; (2) North-Easterly over Spain; (3) a small cyclonic circulation prevalent over the south-east of France and north of Italy. Increasing in force from the Westward later on our north-western and extreme western coasts, remaining South-Easterly over Norway.

Barometer highest, (1) 30.6 ins. and more over the southern parts of Russia, and exceeding 30.0 ins. over that country as a whole; (2) 30.3 ins. and more to 30.1 ins. over Spain, the Bay of Biscay, France, and the extreme south-west of our Islands. Lowest, 29.4 ins. and less in a shallow depression between the Shetland Islands and Norway; gradients moderate. Falling on our north-western coasts later owing to the advance of a new depression towards Scotland, apparently from the west-north-westward.

Tuesday, 1st March.

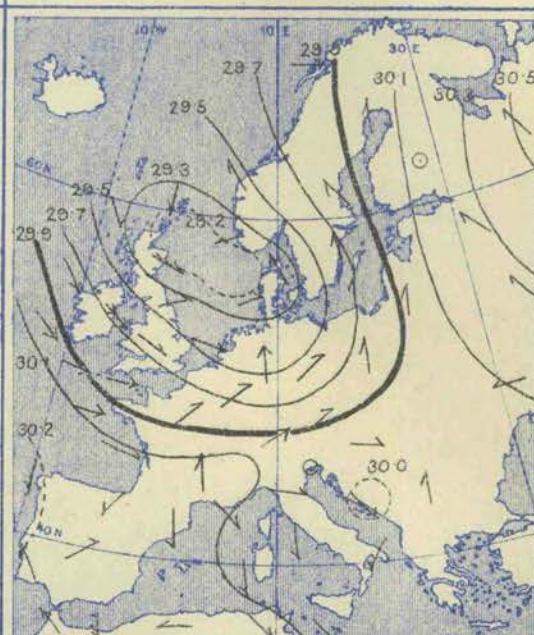
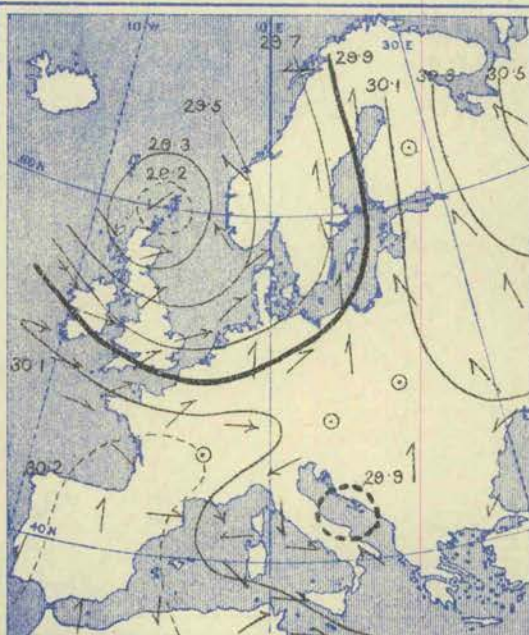
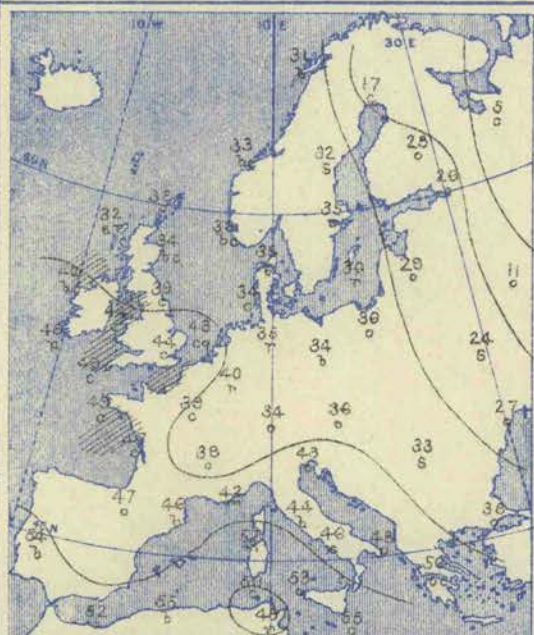
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright over the coasts of Norway, and in some parts of north Germany and Denmark, as well as in the extreme south of Portugal, cloudy and very changeable elsewhere, with rain, hail, and sleet in many parts of our Islands, the Netherlands, and north of France, as well as over Hungary and the south of Russia. Considerable falls of rain, sleet, etc., reported over northern and central Europe, and smaller quantities over our Islands and the north of France; halo seen at Nairn.

Temperature risen over England, France, and Germany, but beginning to fall again in Scotland. Morning readings highest, 55° at Algiers, 54° at Lisbon, 50° at Lorient, 49° to 46° on our extreme south-west coasts; 44° at Holyhead and in London. Lowest, (1) 5° at Archangel, 11° at Moscow and Kharkov, and considerably below the freezing point over Russia generally; (2) 30° to 32° over the north of Scotland, 34° at Leith. Rising later to between 50° and 59° over the southern parts of our Islands, to 54° on the south-west coast of France, 57° at Nice, 60° at Perpignan, and 70° at Lisbon. Falling quickly over our Islands towards night, and touching 59° at Stornoway and Wick.

Wind light and anticyclonic over Russia, Austria, the south-west of France, and the Spanish Peninsula; cyclonic elsewhere; (1) North-Westerly to South-Westerly, fresh to a gale, over Ireland and England, South-Westerly to Southerly over Germany, the Baltic, and Sweden, South-Easterly to Easterly in Norway, North-Easterly at Sumburgh Head. Strong to a gale later from the North-Westward over Ireland, England, and some parts of Scotland, and increasing in force on the eastern shores of the North Sea and the north coast of France.

Barometer highest, (1) 30.5 ins. over Russia; (2) 30.2 ins. and more to 30.1 ins. over Algeria, the Spanish Peninsula, and the south-western half of France; (3) exceeding 30.0 ins. in a "col" lying over central Europe, and connecting the Spanish and Russian anticyclones. Lowest, below 29.2 ins. in a well-marked depression lying over the north-east of Scotland, and about 29.9 ins. in a large shallow system over Dalmatia and the Adriatic. The Scotch depression moving south-eastwards slowly later, and barometer rising over Norway, Scotland, and Ireland.

Wednesday, 2nd March.

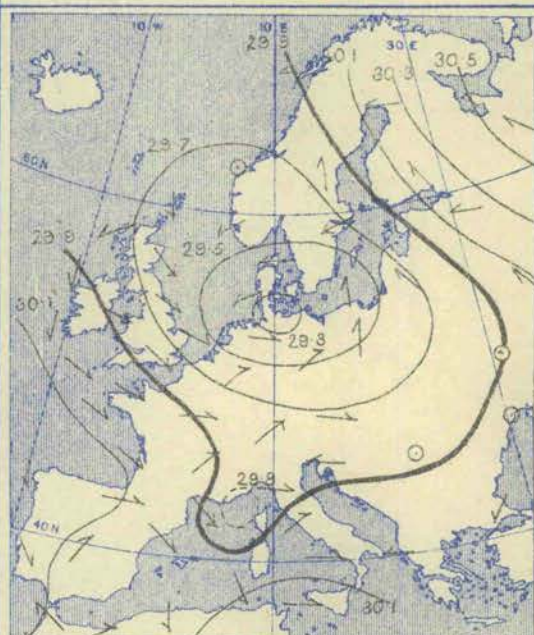
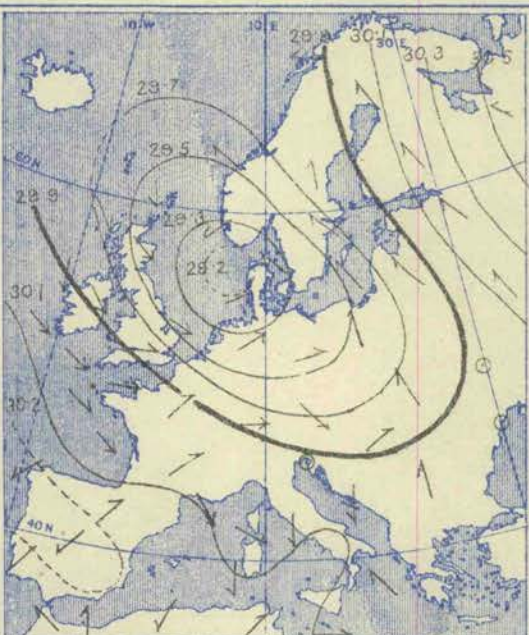
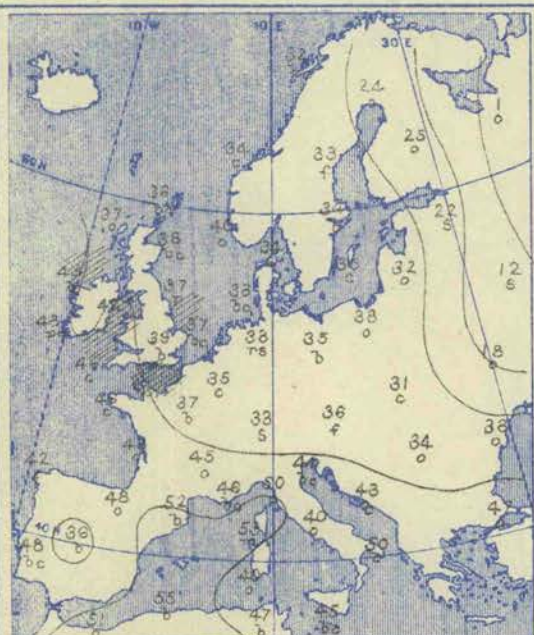
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning temporarily very fine and bright over the greater part of our Islands and the northern parts of France, as well as on the coast of Norway; fine also over Spain and the southern side of the Mediterranean, fair, but dull, over the north of Russia; very unsettled elsewhere, with sleet or cold rain in many parts of France, Germany, Denmark, Russia, and Finland. Sleet, hail, and rain showers later over the western parts of the British Islands and many parts of Continental Europe; thunder heard at Holyhead.

Temperature fallen decidedly over England and the north of France, risen in Scotland. Morning readings highest, 55° at Algiers, 54° at San Fernando, and 53° at Sanguinaires; 48° at Rochefort, 46° at Scilly, 43° at Jersey and along the west coast of Ireland. Lowest, (1) 1° Fahr. at Archangel, 12° at Moscow, 22° at St. Petersburg, and below the freezing point all over Russia, Finland, and Lapland; (2) 32° at Belfort, 33° at Munich, below 40° over the inland parts of England and Ireland. Not touching 50° over Great Britain and Ireland later, but rising to 51° at Paris and 56° at Nice. Falling rapidly over the British Islands towards night.

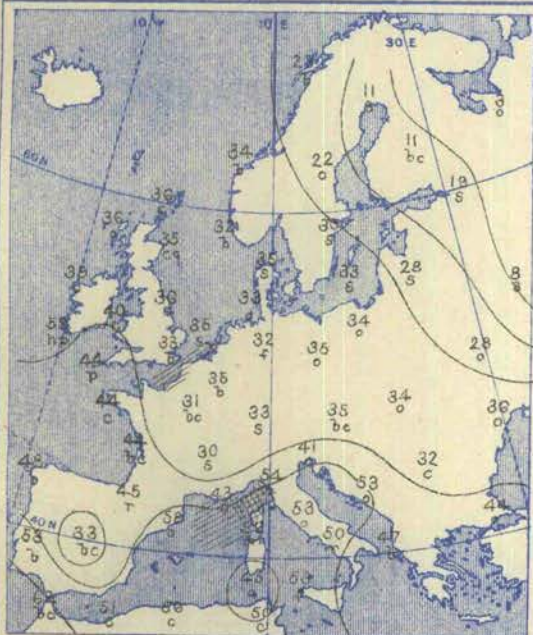
Wind light and anticyclonic over Spain on the one hand, and the north of Russia on the other. Cyclonic over the whole of our Islands and north-western Europe—North-Westerly over the United Kingdom, Westerly and South-Westerly over north Germany, South-Easterly over the Baltic Provinces and Finland, South-Easterly to Easterly over Scandinavia. A small, but independent, cyclonic circulation prevailing over the northern parts of the Mediterranean. Wind moderating in force over our Islands later.

Barometer highest, (1) 30.5 ins. and more to 30.0 ins. over the northern and central parts of Russia; (2) 30.2 ins. and more to 30.0 ins. over south-western and southern Europe, and the extreme south-west of Ireland. Lowest, (1) below 29.2 ins. in a depression lying off the west coast of Denmark, and spreading over the North Sea generally; (2) about 29.9 ins. in a small system off the Riviera. Rising over the British Islands later; falling in Portugal.

Thursday, 3rd March.

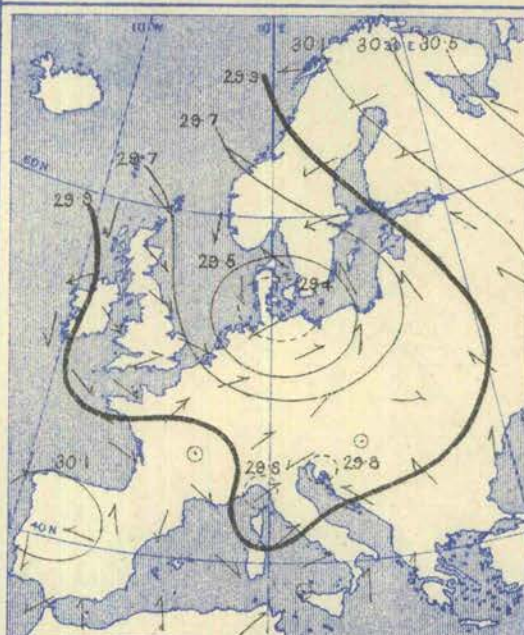
Temperature and Weather.

8 a.m.

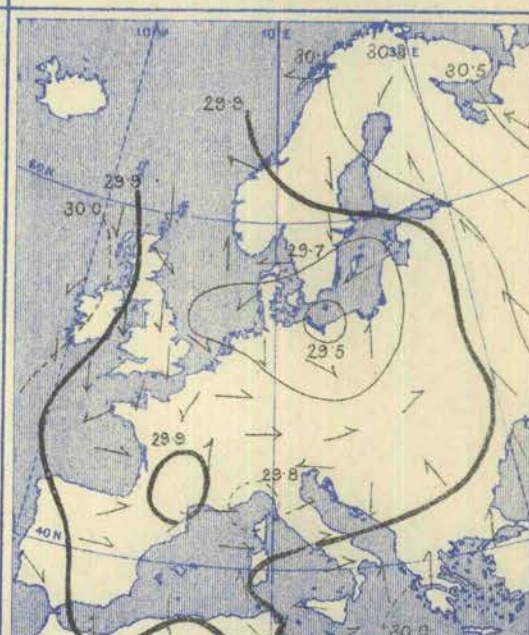


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright on the Norwegian coast as well as over many parts of the British Islands and the Spanish Peninsula, also over Greece and the south of Italy; very changeable elsewhere, with snow at a large number of stations over northern Europe and the Baltic and cold showers at several stations in the United Kingdom. Considerable rain and wet snow over the east of England later, showers over Great Britain generally. Thunder and lightning observed over the south-west of England.

Temperature falling except over the Mediterranean and south of Russia. Morning readings highest, (1) 62° at San Fernando, 56° at Algiers, 54° at Athens and at Leghorn, 53° at Lisbon; 45° to 42° along the west coast of France, 40° at Holyhead and Malin Head. Lowest, (1) 3° at Archangel, 5° at Moscow, 11° at Haparanda and Kuopio, and below the freezing point all over Russia; (2) 30° at Lyons, 31° at Paris; (3) 30° to 33° over the inland parts of England and Ireland. Rising later to between 44° and 50° over many parts of England and France, and touching 57° at Nice and Perpignan, and 63° at Lisbon.

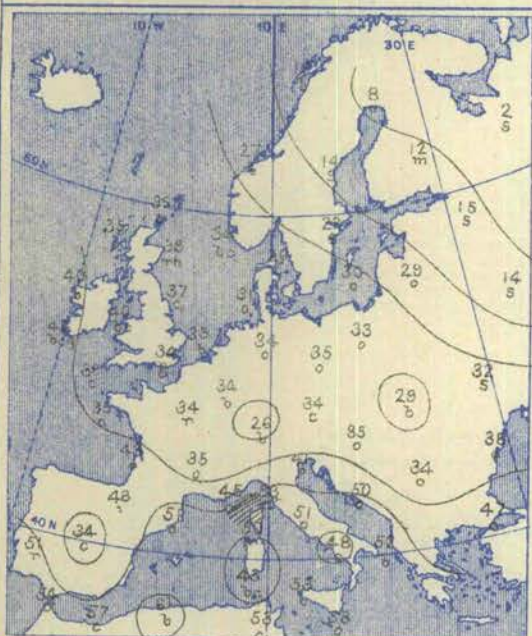
Wind light to strong from between North and West over the greater part of our Islands and France, moderate from between West and South over Germany; moderate to strong from between South-East and North-East over northern Europe; (2) a small cyclonic circulation prevalent over the south-east of France, the north of Italy and south-west of Austria; (3) light and anticyclonic over the Spanish Peninsula and very light from the Southward over the south of Russia.

Barometer highest, (1) 30.5 ins. and more to 30.0 ins. over the north of Russia, with Finland and Lapland, and exceeding 30.0 ins. over the south of Russia and the southern shores of the Mediterranean; (2) 30.1 ins. and more to 30.0 ins. over the Iberian Peninsula and the south-west of France, and exceeding 30.0 ins. off the north-west of Ireland. Lowest, 29.4 ins. and less in a large disturbance over the north-western parts of Germany, and below 29.5 ins. in a complex disturbance over the Riviera, the north of Italy and the south-west of Austria. Other "V"-shaped secondary systems found in various parts both of western and southern Europe.

Friday, 4th March.

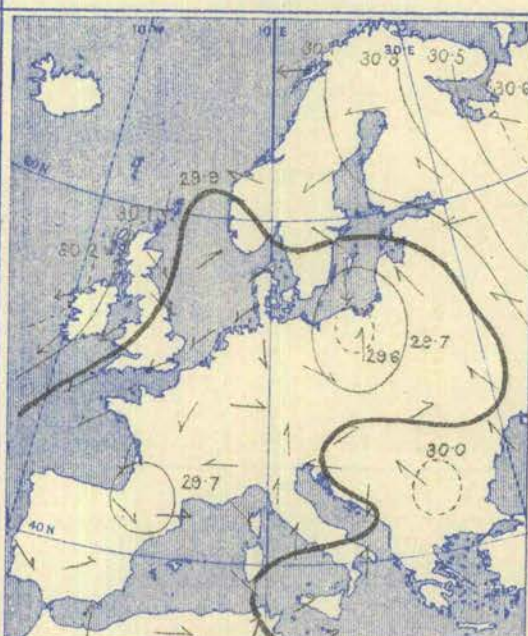
Temperature and Weather.

8 a.m.

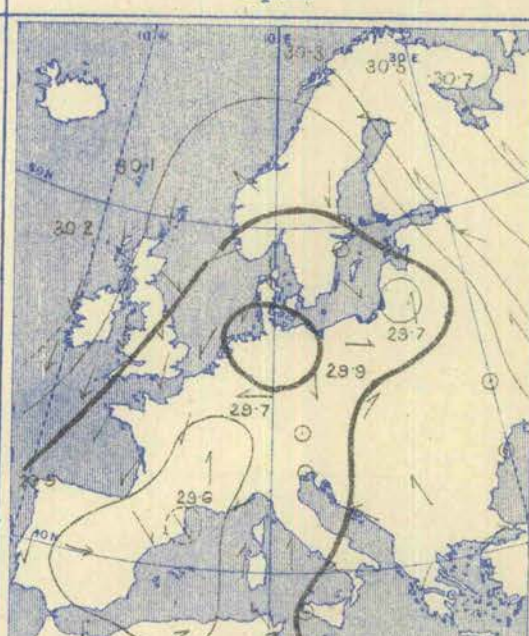


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Ireland and the west of Norway, as well as on the southern side of the Mediterranean, cloudy and very changeable in other places, with snow over Russia, Sweden, and north Germany, rain over France. Considerable falls of rain occurring over France later, and slight showers of sleet in many parts of our Islands, snow in Sweden; lightning reported at Sicily.

Temperature fallen fast over northern Europe, changing little and irregularly elsewhere. Morning readings highest, 61° at Algiers, 58° at Malta, 51° at Lisbon, 48° at Biarritz, 42° at Valencia (Ireland), 40° at Behnulleit. Lowest, (1) 2° at Archangel, 8° at Haparanda, 14° at Moscow, and below 20° over Lapland, Finland, and the northern half of Russia; (2) 26° at Munich, 31° at Wiesbaden, 34° at Paris, 34° to 35° over the inland parts of England and Ireland. Touching 45° at very few of our stations later, and not exceeding 54° even at Nice.

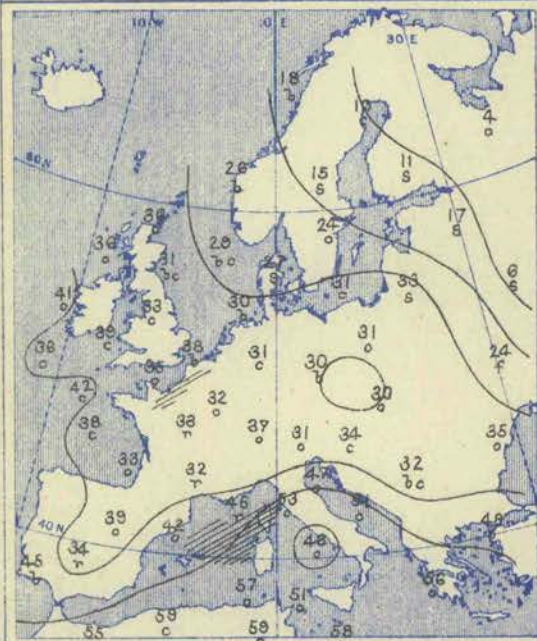
Wind (1) Easterly to Northerly over northern Europe, but South-Westerly over south Germany, South-Easterly over the Baltic Provinces; (2) Northerly (North-West to North-East) over the British Isles and north of France, but North-Westerly to Westerly over Spain, South-Westerly to South-Easterly over Italy. Very little change later, as far as the British Islands and north-western Europe are concerned.

Barometer highest, (1) 30.6 ins. to 30.0 ins. over northern Europe generally; (2) 30.2 ins. to 30.0 ins. over Ireland and the west of Scotland; (3) 29.9 ins. to 30.0 ins. over south-eastern Europe. Lowest, 29.6 ins. and less to 29.7 ins. in a depression over north Germany and the Baltic, and 29.7 ins. and less to 29.5 ins. in a large shallow system over France and the Spanish Peninsula. Falling over central France later, rising slightly over the British Islands.

Saturday, 5th March.

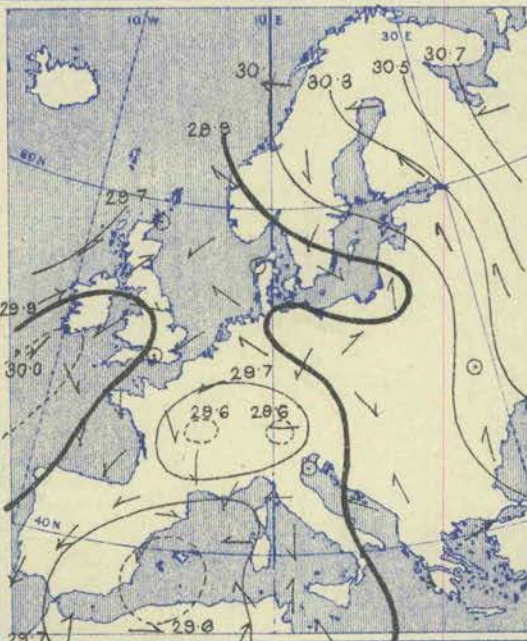
Temperature and Weather.

8 a.m.

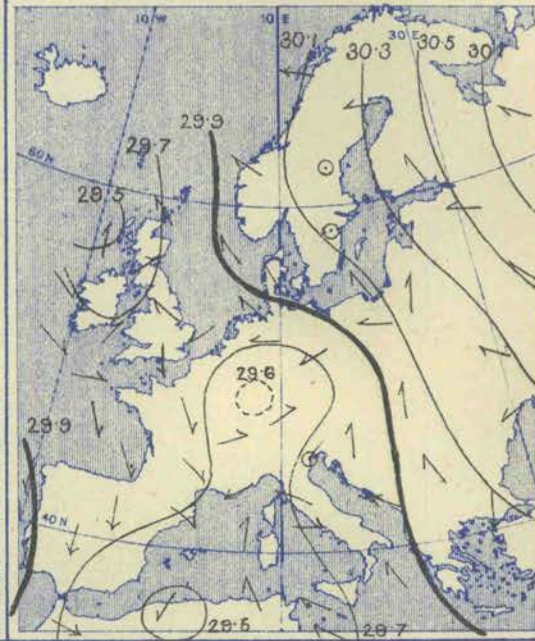


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright on the Norwegian coast, and over the eastern parts of Scotland and England; very unsettled, however, over Europe as a whole, though varying locally. Snow falling at several of the Continental stations, and at Nairn, rain in the south of France. Considerable rain and snow at our western stations later, still larger quantities over France, and smaller quantities over Scotland.

Temperature changing fitfully, but not considerably, in our Islands, falling over Russia. Morning readings highest, 59° to 55° on the southern shores of the Mediterranean, 53° at Leghorn, 45° at Lisbon, 42° at Scilly, 41° at Jersey. Lowest, 4° Fahr. at Archangel, 5° at Moscow, 10° at Haparanda and Uleaborg, and much below the freezing point over Scandinavia and Russia generally; 29° at Wick, Nairn, and Parsonstown, 32° to 35° over the inland parts of England. Rising later to between 40° and 45° over England and Ireland (49° at Valencia) and touching 32° at Nice. Night very cold over our Islands.

Wind (1) Easterly over Scandinavia, Finland, and the north of Russia, but Westerly over the Baltic Provinces; (2) South-Westerly over the north-western parts of the British Islands, but Northerly (North-East to North-West) over England and France, North-Easterly over Spain, South-Easterly over Russia; (3) a complex circulation of light cyclonic breezes prevailing over central Europe. The South-Westerly winds over our north-western coasts spreading a little later, and then giving way to winds from the Westward.

Barometer highest, (1) 30.74 ins. at Archangel, and varying from 30.7 ins. to 29.9 ins. over northern Europe and Russia as a whole; (2) 30.4 ins. over the Azores, and varying from 30.0 ins. and more over the western parts of our Islands and the north-west of Spain. Lowest, below 29.6 ins. in a shallow depression over the Balearic Islands; 29.6 ins. and less to 29.7 ins. in a complex system over central Europe, and about 29.7 ins. off the north-western coasts of the Hebrides. Falling fast in the west and north-west of our Islands later, and the fall spreading eastwards and southwards.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\circ$ = a calm. In the left-hand Chart the weather is indicated as follows: — = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week barometric pressure was high, 30.9 ins. to 30.2 ins. over the southern half of Russia, and exceeded 30.2 ins. over the greater part of France and Spain also, but was low (below 29.4 ins.) in a depression off the west of Norway. During the next day or two a well-marked depression travelled from the north of Scotland in a south-easterly direction across the North Sea, reaching north Germany by Wednesday night, where it apparently dispersed, so that cold North-Westerly winds, strong to a gale in force, were felt over the United Kingdom, and were accompanied by squalls of snow, graupel, and rain, while over Russia, the Baltic, and Scandinavia, the wind was South-Easterly and Easterly. After Wednesday a very complex distribution of pressure was observed, the barometer becoming very high over the northern half of Russia, and somewhat high off our north-western and western coasts, while a very complex series of disturbances appeared over Algeria, the Mediterranean, France, and western Germany, and another off the north-west coast of Scotland. The weather consequently became very unsettled over the western half of Europe, as well as over the British Islands, and considerable quantities of rain, sleet, and hail fell locally over England, and very generally over France. At the close of the week conditions were becoming still more complex, both over the Mediterranean and western and northern Europe.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 50.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	23.6	?	32	?	WESTBOURNE (Emsworth)	33.9*	+ 9.4	45*	+13
STRATHPEFFER SPA	13.2	- 6.8	18	-11	WATERGATE (Emsworth)	22.0	?	29	?
EDINBURGH	23.0	+ 5.7	31	+ 8	BRIGHTON	23.0	+ 9.2	43	+11
MORPETH	38.3	?	52	?	EASTBOURNE	32.3	+10.0	43	+12
NEWCASTLE-ON-TYNE	30.7	?	41	?	VENTNOR HOSPITAL	31.6	?	42	?
OSWALDKIRK (Yorkshire)	34.2	+14.8	46	+20	SOUTHPORT	44.1	?	59	?
SHEFFIELD	26.0	?	35	?	COLWYN BAY	34.2	?	46	?
WORKSOP	23.2	+ 5.0	31	+ 6	TENBY	38.1*	+12.5	50*	+15
THURCASTON (Leicestershire)	25.4	+ 7.5	34	+ 9	NEWQUAY	34.7	+10.1	46	+12
PLUMSTEAD COMMON	?	?	?	?	TORQUAY	43.4*	+21.3	57*	+27
MARGATE	32.5	+11.4	43	+14	GUERNSEY	29.5*	+ 2.4	39*	+ 2

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

Vol. XV. No. 10.]
Third Series.

WEEK ENDING SATURDAY, MARCH 12TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 56.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	52	16	45.9	33.0	39.3	1 above	Day-deg. 11	Day-deg. + 3	Day-deg. 33	Day-deg. - 2	Day-deg. 107	Day-deg. + 40	Day-deg. 256	Day-deg. - 140
	1. SCOTLAND, EAST	57	9	47.5	30.9	39.0	1 above	15	+ 3	41	+ 3	135	+ 48	269	- 157
	2. ENGLAND, N.E.	56	22	46.0	30.4	38.0	2 below	11	- 2	42	+ 11	176	+ 92	220	- 153
	3. ENGLAND, EAST	50	22	43.1	29.8	36.3	4 below	3	- 15	42	+ 7	133	+ 28	266	- 160
	4. MIDLAND COUNTIES	52	21	43.8	28.0	35.7	5 below	5	- 12	49	+ 15	153	+ 42	255	- 167
	5. ENGLAND, SOUTH	50	26	43.2	33.3	38.1	3 below	3	- 17	30	+ 3	180	+ 60	146	- 194
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	53	20	46.5	34.3	40.2	0 (average)	13	+ 1	29	+ 2	176	+ 76	158	- 144
	7. ENGLAND, N.W.	52	24	45.1	31.6	38.2	3 below	9	- 4	38	+ 12	172	+ 79	139	- 173
	8. ENGLAND, S.W.	55	22	44.4	31.4	37.7	5 below	7	- 13	37	+ 15	227	+ 68	133	- 121
	9. IRELAND, NORTH	55	24	48.2	34.3	41.1	0 (average)	17	+ 1	30	+ 7	211	+ 77	150	- 113
	10. IRELAND, SOUTH	54	22	47.9	34.8	41.2	2 below	17	- 6	28	+ 11	290	+ 88	110	- 91
	—CHANNEL ISLANDS.	52	32	45.7	37.8	41.7	3 below	10	- 14	17	+ 8	324	+ 106	39	- 76

DISTRICTS. (See p. 56.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10ths of in. 5	10ths of in. 4 less	60	+ 9	15.1	+ 3.7	26	+ 7	34	+ 7	113	+ 9	18	+ 1
	1. SCOTLAND, EAST	3	1	4 less	40	+ 1	3.8	- 2.2	32	+ 10	41	+ 12	170	+ 37	23	+ 6
	2. ENGLAND, N.E.	2	1	3 less	32	- 5	2.3	- 1.9	31	+ 7	40	+ 10	178	+ 45	23	+ 7
	3. ENGLAND, EAST	1	less than 1	3 less	30	- 7	2.1	- 2.1	20	- 3	25	- 6	159	+ 7	25	+ 1
	4. MIDLAND COUNTIES	1	less than 1	4 less	29	- 6	2.1	- 2.8	16	- 3	20	- 6	146	+ 8	23	+ 1
	5. ENGLAND, SOUTH	1	1	3 less	28	- 7	2.6	- 2.8	18	- 5	22	- 8	155	+ 9	25	+ 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	1	6 less	48	+ 5	8.8	- 2.1	20	- 2	26	- 3	143	+ 23	25	+ 5
	7. ENGLAND, N.W.	1	1	4 less	41	+ 2	6.4	+ 0.3	31	+ 13	40	+ 15	173	+ 54	30	+ 9
	8. ENGLAND, S.W.	1	4	2 less	38	- 2*	5.1	- 2.8	36	+ 10	45	+ 10	185	+ 15	28	+ 2
	9. IRELAND, NORTH	4	1	4 less	49	+ 4	6.9	- 0.3	24	+ 4	30	+ 4	142	+ 7	23	+ 1
	10. IRELAND, SOUTH	2	2	5 less	37	- 5	6.0	- 2.2	25	+ 2	32	+ 1	170	+ 10	27	+ 2
	— CHANNEL ISLANDS.	3	3	2 less	45	0	3.7	- 3.1	27	- 11	34	- 16	204	+ 13	31	+ 2

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period was fair as a whole, but falls of rain or sleet were experienced in the west and north at the beginning of the week, and rain had set in again in the north and north-west towards the end of the period.

Temperature was above the mean in Scotland N. and E., and just equal to it in Scotland W. and Ireland N.; in all other districts it was below the normal, the deficit being 4° in England E., and 5° in the Midland Counties and England S.W. The highest of the maxima were recorded towards the end of the week, and ranged from 57° in Scotland E., and 56° in England N.E., to 50° in England E. and S. The lowest of the minima were recorded during the earlier half of the week, and ranged from 9° in Scotland E. (at Braemar on the 8th), and from 16° in Scotland N., to 26° in England S., and to 32° in the Channel Islands.

Rainfall was less than the mean in all districts; in all but the extreme northern and south-western districts the fall was very slight.

Bright Sunshine again exceeded the normal amount in most districts, but was deficient in Scotland W., eastern, central, and southern England, and the Channel Islands. The percentage of the possible duration ranged from 45 in England S.W., 41 in Scotland E., and 40 in England N.E. and N.W., to 22 in England S., and 20 in the Midland Counties.

Barometer and Wind.—At the commencement of the week a well-defined depression was moving southwards to the south-west of England; this gradually moved away to the southward, and the distribution of pressure over our Islands became anticyclonic, with Westerly winds in the north, and North-Easterly and Easterly winds in the south. The latter were very strong in the Channel on the 8th, and blew with the force of a gale in several places. By the end of the week the barometer was falling very generally, a depression was spreading over the northern half of the Kingdom from the northward, and the North-Easterly current of wind in the south was dying out.

II.—DATA from which the SUMMARY on page 55 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42° F.	Below 42° F.	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	48	30	44.6	35.9	40.1	+ 2.2	7	22	6	0.74	+ 0.09	*	*	*
	Stornoway	50	27	46.9	33.4	40.0	+ 0.9	14	32	6	0.81	- 0.04	30.2	+ 9.7	39
	Wick	50	25	46.1	33.0	39.4	+ 0.7	11	33	1	0.03	- 0.47	*	*	*
	Lairg	52	16	47.0	29.1	38.0	+ 0.7	14	48	2	0.14	- 0.56	*	*	*
	Glencarron	48	21	43.3	31.6	37.3	- 0.2	4	36	5	1.03	- 0.40	*	*	*
	Fort Augustus	52	23	47.4	32.5	39.7	+ 0.7	15	35	3	0.21	- 0.59	25.0	+10.5	32
1. SCOTLAND, E.	Fort William	50	27	45.8	35.3	40.4	+ 0.6	11	25	5	0.46	- 1.04	22.8	+ 4.1	29
	Nairn	56	24	49.0	30.6	39.5	+ 0.4	20	43	2	0.06	- 0.37	*	*	*
	Aberdeen	57	29	48.4	33.6	40.8	+ 1.8	18	32	2	0.38	- 0.12	40.6	+17.0	52
	Braemar	46	9	41.0	25.7	33.1	- 2.3	0	62	2	0.03	- 0.56	25.5†	+ 2.3†	33†
	Ochertyre	53	23	40.9	32.1	40.7	+ 1.9	22	38	4	0.07	- 0.53	*	*	*
	Leith	56	25	49.9	32.4	40.9	+ 0.5	22	37	1	0.01	- 0.27	*	*	*
2. ENGLAND, N.E.	Marchmont	52	?	47.0	?	?	?	?	?	4	0.09	- 0.43	32.8	+11.5	42
	Alnwick Castle	53	22	46.3	29.3	37.6	- 1.4	12	46	5	0.07	- 0.42	*	*	*
	Durham	56	23	46.7	29.4	37.8	- 1.2	13	46	3	0.03	- 0.39	30.8	+ 8.8	39
	Shields	55	26	46.6	30.6	38.4	- 1.6	13	42	1	0.03	- 0.32	*	*	*
	Scarborough	53	25	46.4	27.9	36.9	- 3.4	12	51	1	0.01	- 0.34	27.8	+ 7.0	36
	York	48	32	44.1	35.0	39.4	- 0.5	6	25	2	0.14	- 0.11	*	*	*
3. ENGLAND, E.	Spurn Head	49	25	43.4	28.2	35.6	- 4.2	4	48	1	0.02	- 0.34	19.7	- 3.3	25
	Hillington	43	29	41.4	34.1	37.6	- 1.8	0	31	0	—	- 0.36	*	*	*
	Yarmouth	47	22	43.5	30.5	36.8	- 3.4	4	40	1	0.01	- 0.29	28.0	+ 3.8	35
	Geldeston	50	23	45.3	26.7	35.7	- 5.0	9	54	1	0.01	- 0.28	19.5	- 3.7	25
	Cambridge	46	25	41.9	29.6	35.6	- 4.2	0	45	0	0.01†	- 0.36	12.6	-10.4	16
	Rothamsted	52	21	46.4	26.7	36.3	- 3.9	12	55	0	—	- 0.20	*	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	48	22	44.0	25.9	34.7	- 6.1	6	56	1	0.02	- 0.30	*	*	*
	Loughborough	47	23	44.7	27.0	35.6	- 4.9	8	53	2	0.02	- 0.27	*	*	*
	Stamford (Duddington)	48	27	42.7	29.4	35.9	- 2.9	2	44	0	—	- 0.47	*	*	*
	Cheadle	47	26	41.6	27.6	34.4	- 6.0	0	53	1	0.01	?	*	*	*
	Shirley (near Solihull)	49	25	43.5	27.3	35.2	- 4.6	4	51	0	—	- 0.42	26.2	+ 4.2	33
	Churchstoke	51	26	43.7	30.5	36.9	- 3.9	5	40	2	0.06	- 0.29	*	*	*
5. ENGLAND, S.	Hereford	47	23	42.7	28.6	35.4	- 4.4	2	46	0	—	- 0.44	16.2	- 6.9	20
	Cirencester	49	27	44.6	29.4	36.8	- 4.0	7	45	2	0.02	- 0.31	18.4	- 4.1	23
	Oxford	47	28	43.9	32.9	38.2	- 3.5	5	32	0	—	- 0.30	12.6†	- 2.2†	16†
	London	42	30	41.3	34.4	37.8	- 3.0	0	29	3	0.17	?	*	*	*
	North Foreland	44	26	42.9	35.3	39.0	- 1.7	3	23	3	0.10	- 0.24	*	*	*
	Dungeness	45	31	42.8	34.5	38.5	- 2.7	2	26	2	0.12	- 0.28	20.7	- 6.6	26
6. SCOTLAND, W.	Hastings (St. Leonards)	50	28	45.2	32.0	38.4	- 3.9	9	36	0	—	- 0.44	17.2	- 7.8	22
	Southampton	48	30	44.4	34.0	39.1	- 2.5	7	29	1	0.02	- 0.35	*	*	*
	Hurst Castle	46	28	41.6	30.2	35.7	- 4.4	0	44	1	0.10	- 0.39	*	*	*
	Shaftesbury	50	29	47.1	35.7	41.2	+ 0.3	14	24	5	0.56	- 0.81	*	*	*
	Laudale (Loch Sunart)	51	30	45.0	36.0	40.4	+ 0.8	8	22	3	0.13	- 0.39	6.3	- 9.7	8
	Glasgow	49	30	46.7	36.9	41.7	+ 1.0	13	20	3	0.03	- 0.45	*	*	*
7. ENGLAND, N.W.	Ardrossan	53	20	46.7	30.4	38.3	- 1.3	13	42	2	0.03	- 0.77	*	*	*
	Glenlee	51	26	45.9	33.8	39.7	+ 0.1	11	30	3	0.06	?	24.5	?	31
	Gilcrux (Cumberland)	53	27	47.4	32.8	39.9	- 1.2	15	35	2	0.02	- 0.56	30.5	+ 5.9	39
	Douglas (Isle of Man)	47	26	44.2	29.8	36.8	- 2.8	6	43	1	0.04	- 0.69	27.7	+ 7.6	36
	Stonyhurst	50	24	46.4	28.8	37.3	- 2.7	12	47	1	0.03	- 0.40	31.2	+11.2	40
	Blackpool	48	26	43.1	29.4	36.1	- 3.7	3	44	2	0.03	- 0.45	14.0	?	18
8. ENGLAND, S.W.	Manchester (Prestwich)	47	29	44.3	32.1	38.0	- 3.5	6	35	2	0.17	- 0.15	*	*	*
	Liverpool Obsy. (Bidston)	52	30	45.9	33.3	39.4	- 2.9	11	32	1	0.02	- 0.38	41.6	+19.8	53
	Llandudno	52	34	46.7	36.3	41.4	- 0.9	13	23	1	0.04	- 0.44	*	*	*
	Holyhead	55	22	46.7	25.4	35.7	- 5.9	13	59	2	0.16	- 0.64	*	*	*
	Llandovery	50	32	45.3	35.4	40.2	- 2.4	9	24	1	0.14	- 0.36	40.6	+14.0	51
	Pembroke	44	29	41.8	31.0	36.2	- 5.6	0	41	1	0.05	- 0.42	*	*	*
9. IRELAND, N.	Clifton	49	27	43.4	29.6	36.3	- 4.5	4	43	1	0.03	- 0.79	*	*	*
	Arlington (N. Devon)	49	26	43.6	30.1	36.7	- 6.1	4	42	2	1.21	+ 0.58	22.5	- 1.7	28
	Cullompton	49	33	45.1	33.8	39.3	- 4.6	9	30	1	0.36	- 0.44	44.9	+17.9	57
	Falmouth	50	31	44.8	33.5	39.0	- 4.0	8	31	1	0.25	- 0.29	32.5	+ 5.8	41
	Plymouth	48	31	44.4	32.7	38.4	- 3.8	7	33	2	0.82	+ 0.42	*	*	*
	Prawle Point	49	34	46.4	38.4	42.3	+ 0.1	17	10	5	0.15	?	*	*	*
10. IRELAND, S.	Malin Head	52	30	48.7	34.3	41.3	- 0.5	19	30	5	0.20	- 0.33	*	*	*
	Londonderry	50	25	46.7	33.3	39.8	- 0.1	13	32	2	0.12	- 0.38	*	*	*
	Edenfel (Omagh)	52	30	48.6	36.7	42.5	- 1.0	26	15	7	0.20	- 0.68	*	*	*
	Belmullet	54	25	49.2	32.8	40.8	- 0.2	20	36	5	0.23	- 0.41	26.9	+ 6.2	34
	Markree Castle	55	27	48.1	33.8	40.7	+ 0.1	17	31	2	0.04	- 0.48	20.1	+ 0.1	26
	Armagh	55	28	49.6	33.6	41.4	- 0.3	21	33	1	0.03	- 0.38	*	*	*
CHANNEL ISLANDS	Donaghadee	52	24	47.9	31.7	39.6	- 1.0	17	39	3	0.11	- 0.46	*	*	*
	Edgeworthstown	54	31	47.6	36.7	42.0	- 0.7	16	15	2	0.04	- 0.39	26.5	+ 3.2	34
	Dublin	54	23	48.6	33.1	39.8	- 2.9	14	33	2	0.03	- 0.45	16.8	- 5.2	21
	Parsonstown	53	28	46.9	33.1	39.8	- 1.6	24	14	1	0.15	- 0.65	*	*	*
	Kilkenny	51	33	48.1	36.9	42.3	- 2.9	25	17	4	0.52	- 0.45	31.8	+ 6.8	40
	Roche's Point	53	29	48.4	36.1	42.1	- 3.9	18	36	3	0.21	?	*	*	*
CHANNEL ISLANDS	Valencia	53	22	48.5	32.7	40.4	- 1.0	14	21	1	0.17	?	*	*	*
	Killarney	50	27	47.1	36.8	41.8	- 2.6	23	11	2	0.14	- 0.39	43.4	?	55
CHANNEL ISLANDS	Foynes	46	32	43.4	37.7	40.5	- 3.7	4	16	3	0.42	- 0.09	19.2	-10.8	24
	Scilly (St. Mary's)	52	36	47.9	37.9	42.8	- 2.6	23	11	2	0.14	- 0.39	43.4	?	55
	Jersey	46	32	43.4	37.7	40.5	- 3.7	4	16	3	0.42	- 0.09	19.2	-10.8	24

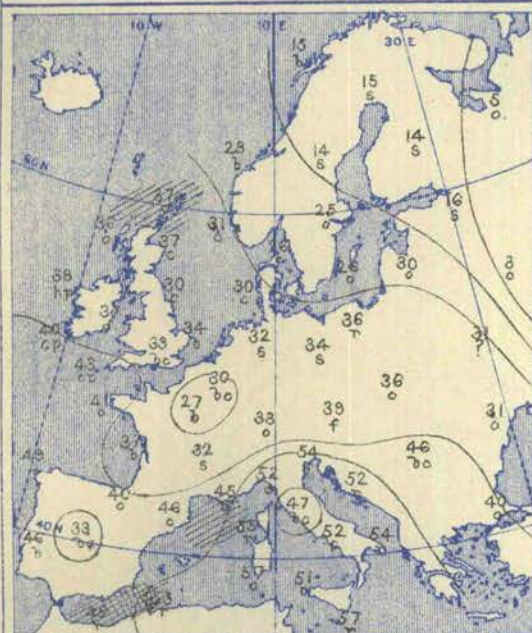
Stations marked $\mathcal{S}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page. ‡ Dew.

Sunday, 6th March.

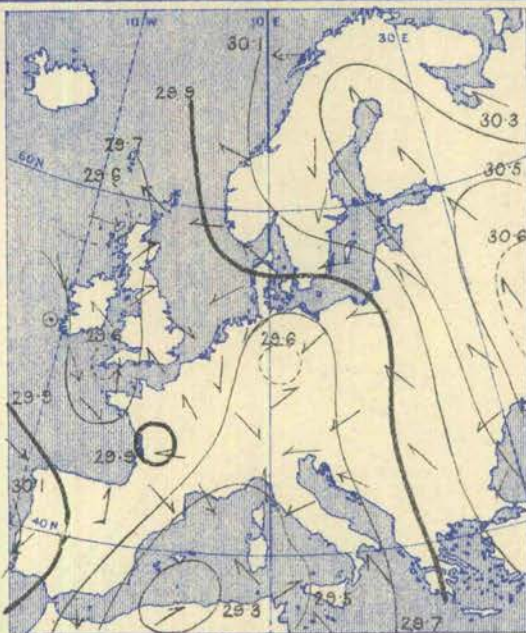
Temperature and Weather.

8 a.m.

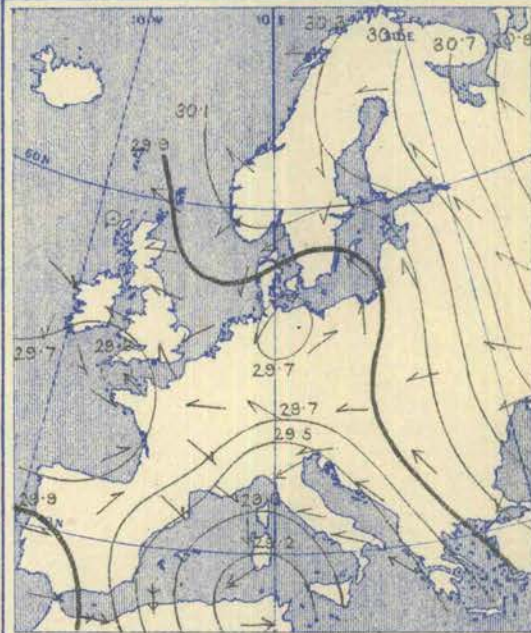


Barometer and Wind.

8 a.m.



6 p.m.



Weather in a very changeable condition over the whole of western, central, and southern Europe; fair, but dull, over the inland and southern parts of Russia; sleet and rain reported at many of our western stations, and dull, rainy conditions over the Mediterranean generally. Much rain later over the Mediterranean, France, and several parts of Italy; snow over northern Europe, and some cold showers in various parts of our Islands.

Temperature risen over the eastern half of the Continent, changing frequently and rather abruptly in the west. Morning readings highest, 57° at Malta, and exceeding 50° at the stations on the eastern shores of the Mediterranean and on the shores of the Adriatic as a whole; 49° at Corunna, 43° to 40° on our extreme south-western coasts. Lowest, (1) 3° Fahr. at Moscow, 5° at Archangel, 15° at Uleaborg and Bodö, and much below the freezing point all over Russia and Scandinavia; (2) 27° to 32° over the inland parts of France, 29° to 33° over central England. Rising later to 48° at Leith, and to between 40° and 45° over the greater part of our Islands and the north of France, and touching 54° to 52° in the west of France, 55° at Nice, 50° at the Azores, 61° at Lesina, 64° at Leghorn.

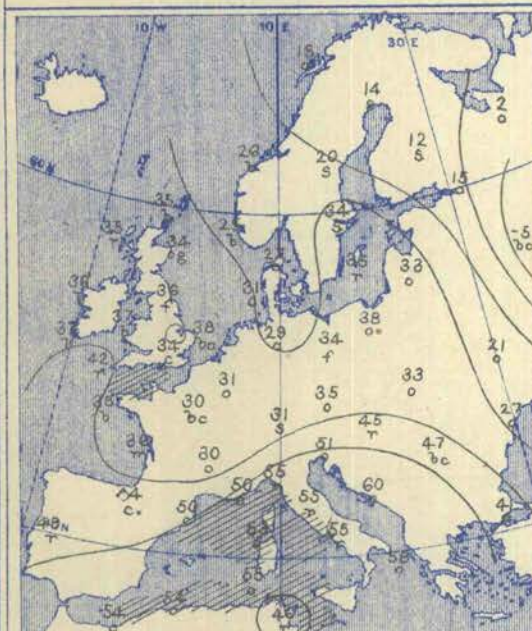
Wind Easterly to South-Easterly over northern Europe and Russia—strong to moderate in force; very variable over the western countries—(1) Northerly to North-Westerly over Ireland, the Scilly Islands, and on the western coasts of the Spanish Peninsula (a moderate gale at Corunna), but Southerly to Easterly (light and variable) over England; very light and variable over France. A well-marked cyclonic circulation prevalent over the Mediterranean—force moderate to strong; a South-Easterly gale over the Adriatic.

Barometer highest, (1) 30.6 ins. and more to 30.0 ins. over Russia and Scandinavia; (2) 30.47 ins. in the Azores; 30.1 ins. and more to 30.0 ins. over Portugal and the west of Spain. Lowest, (1) below 29.3 ins. in a depression over the north of Africa, and below 29.5 ins. over the greater part of the Mediterranean; (2) 29.6 ins. and less in secondary depressions lying—one over the north-west of Germany, another over Devon and Cornwall, and a third off the north-west of Scotland. The Mediterranean depression becoming much more pronounced later, that over our south-western coasts moving southwards, that in the north-west disappearing.

Monday, 7th March.

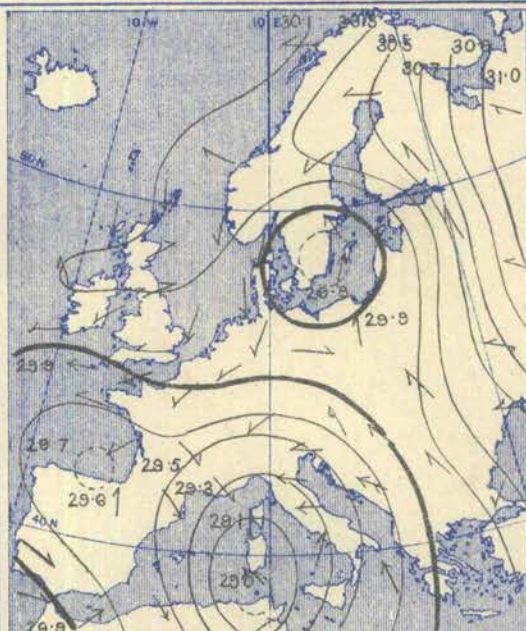
Temperature and Weather.

8 a.m.

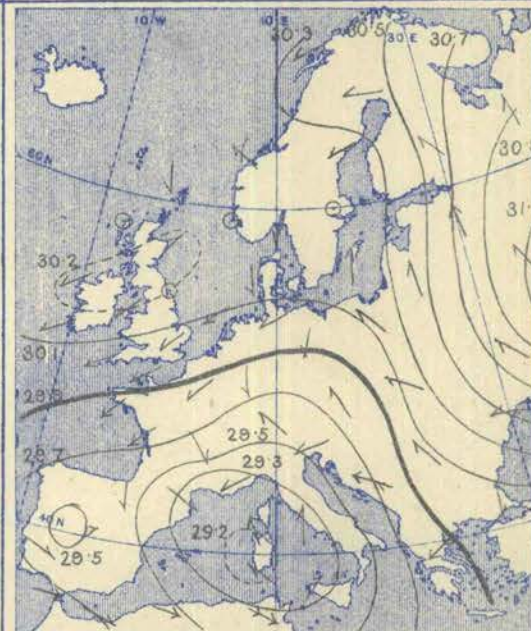


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Norway and the greater part of the United Kingdom, fair over the north of France, changeable and unsettled over the rest of the Continent, and very unsettled over the Mediterranean and Tunis; snow and rain falling at several of the northern stations, rain at many of the Mediterranean stations, as well as in the south of France and some parts of Austria. Considerable falls of snow later over Sweden, the Baltic, and north Germany, and heavy falls over southern Europe; 2.3 ins. at Turin.

Temperature falling over the central and eastern parts of the Continent and over the British Islands, risen over the south of France and Italy. Morning readings highest, 60° at Lesina, 55° at Cagliari and along the west coast of Italy, 47° to 42° over Austria-Hungary; below 50° on the Atlantic coasts, 49° at Lisbon, 44° at Biarritz, 42° at Scilly. Lowest, -5° Fahr. at Moscow, 0° (zero) at Kharkov, and much below the freezing point all over Russia, Finland, and Scandinavia; 27° at Nairn, 28° to 34° over central England; 30° to 32° over central France. Rising later to between 40° and 47° over our Islands, but falling fast towards night; not exceeding 54° at Biarritz and Nice, but touching 63° at some Mediterranean stations.

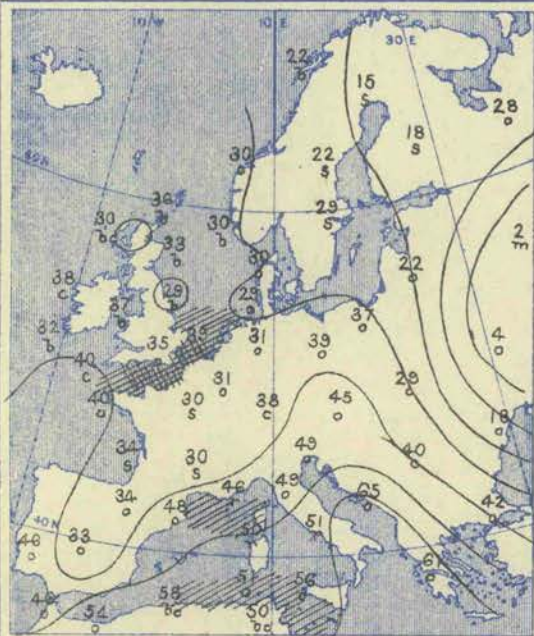
Wind very variable indeed; (1) a very well-defined cyclonic circulation prevailing over Scandinavia, the Baltic, western Russia, and north Germany, light to a fresh gale; (2) a similar circulation over the Mediterranean, southern Europe, and northern Africa, and a secondary circulation over Spain; (3) Easterly and North-Easterly winds prevalent over the southern parts of England, blowing very strongly over Devon and Cornwall; (4) variable airs over the north of our Islands. The Easterly winds becoming very strong later, both on our south and east coasts and on the north coast of France.

Barometer highest, 31.0 ins. and more to 30.0 ins. over Russia and Turkey in Europe, and exceeding 30.0 ins. over all the northern half of Scandinavia, as well as the greater part of our Islands, 29.7 ins. at San Fernando. Lowest, 29.0 ins. to 29.1 ins. in a large complex depression over the Mediterranean and Tunis; below 29.6 ins. in a shallow system over the north of Spain, and below 29.3 ins. in a well-marked system over the southern parts of Sweden. Rising over our Islands all day, falling over southern and central France, but rising over the Mediterranean.

Tuesday, 8th March.

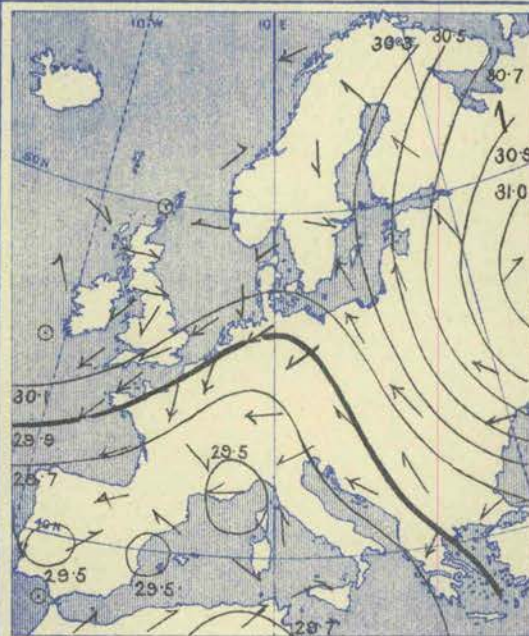
Temperature and Weather.

8 a.m.

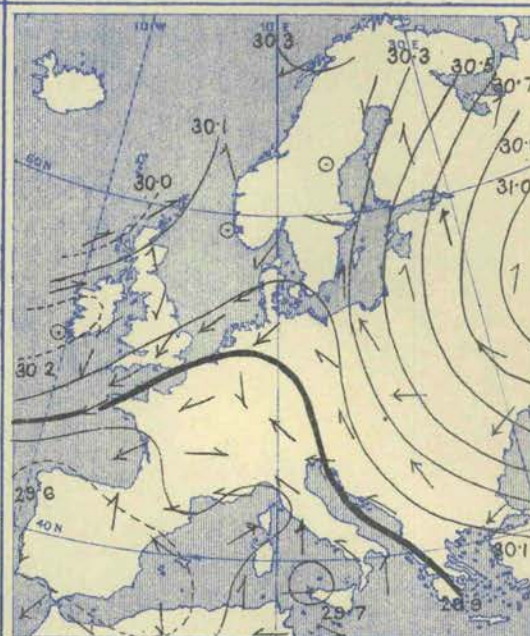


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Ireland and the northern half of Great Britain and Norway, as well as in some parts of southern and central Russia; dull and unsettled elsewhere, with snow in several parts of France, rain over the northern parts of the Mediterranean. Considerable snow and rain later at the Swedish stations, and some rain in the south of France; slight showers on our north-western coasts, at Jersey and on the south-eastern coast of England.

Temperature risen a little over England, fallen fast over south-eastern, and slightly over central Europe. Morning readings highest, 65° at Lesina, 61° at Patras, 58° at Algiers, 56° at Palermo, 41° to 40° at the Austrian stations; 46° at Lisbon, 40° at Scilly, Brest, Jersey, and Dungeness. Rising later to between 48° and 45° over Ireland, and to between 46° and 40° over Great Britain, and touching 54° at Nice, 55° at Perpignan.

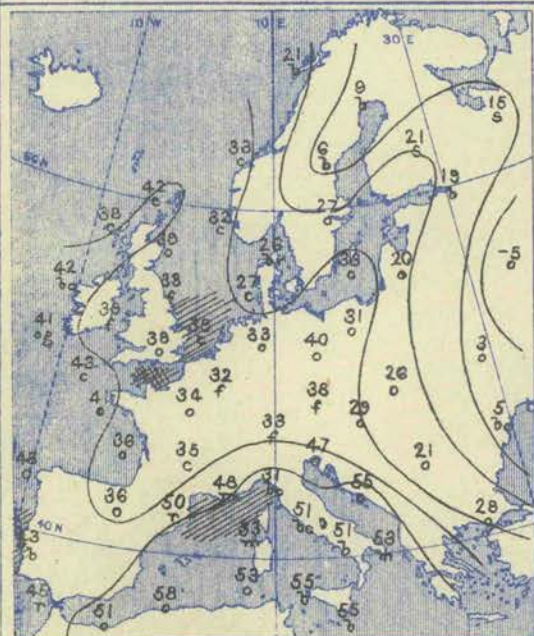
Wind (1) extremely variable and light over Ireland, Scotland and Norway; (2) North-Easterly and very strong over the south of England, the Channel and north of France, moderate from South-West at the Algerian stations. South-Easterly (East to South) over Russia, Poland and Hungary, North-Easterly over Greece, and blowing a gale at Patras. Blowing a gale from North-East in the English Channel all day, but a moderate breeze from South-West becoming prevalent over the north-western and northern parts of our Islands.

Barometer highest, (1) 31.14 ins. at Moscow and ranging between that value and 30.2 ins. over the whole of Russia; (2) exceeding 30.2 ins. over Norway, Scotland, Ireland and even at the Azores. Lowest, 29.5 ins. and less in three "minima"—two of them over Spain, and the third over Corsica and the northern shores of the Mediterranean. Distribution much less complex than on the 7th. Falling later in the north and west of our Islands, rising over France.

Wednesday, 9th March.

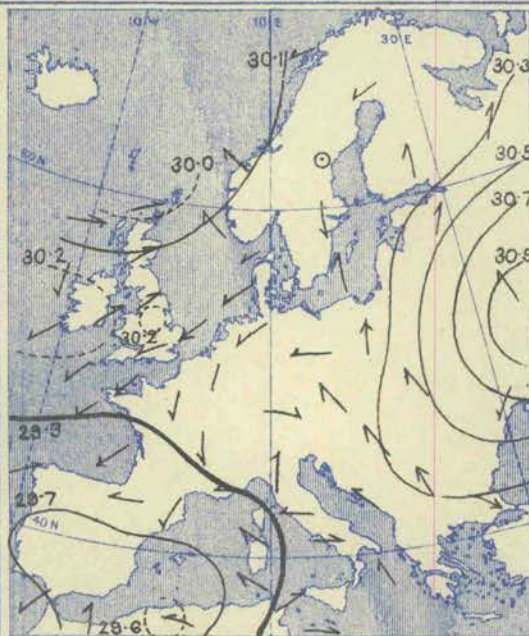
Temperature and Weather.

8 a.m.

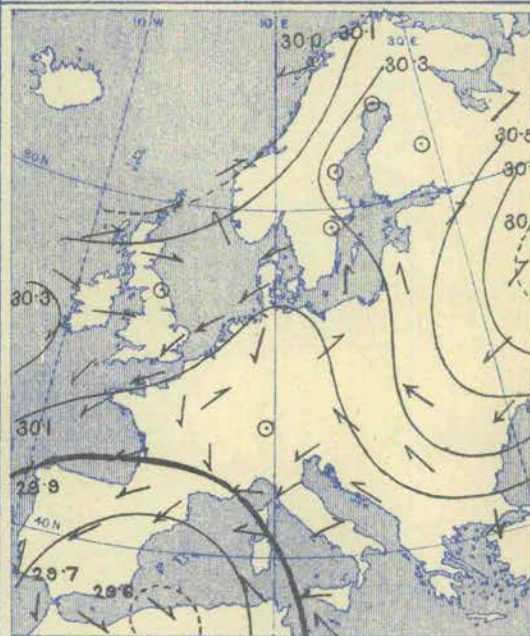


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over many parts of Russia and the greater part of Scandinavia, and Scotland, dull and unsettled elsewhere, but improving over England. Snow falling over Finland, rain over central Ireland and the southern parts of France and fog at several of the French stations. Rain falling later at several of the Continental stations, heavily at some stations in the south of France; slight showers in the south of England, and a fresh fall commencing in the extreme north and north-west.

Temperature recovering a little over western Europe, falling over Sweden and many parts of Russia and south-eastern Europe. Morning readings highest, 58° at Algiers, 55° at Palermo and Lesina, 51° at Leghorn, 48° at Corunna, 43° at Scilly and Malin Head, 42° at Sumburgh Head. Lowest, (1) -5° Fahr. to zero over the central and southern parts of Russia, +9° at Haparanda, and below the freezing point all over Russia, Hungary and northern Europe; (2) 29° at York, 30° at Loughborough. Rising later to 50° or 51° over the north-eastern parts of Great Britain and to 49° in several parts of Ireland, but not exceeding 40° at the North Foreland or 41° at Berlin, touching 55°, however, at Nice.

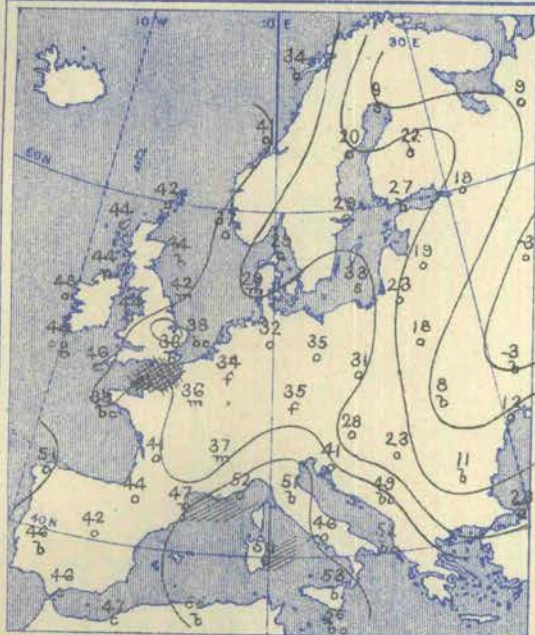
Wind (1) South-Easterly to Southerly over Russia and the Baltic, and moderate to strong in force, North-Easterly moderate to strong over the south of England and the Channel, Northerly to Easterly and light over France and Spain; (2) a light Westerly to South-Westerly breeze setting in over Scotland, and a South-Easterly breeze in the west of Norway. The Easterly breeze in the south and east of England moderating considerably later, hardly any change elsewhere.

Barometer highest, (1) 30.9 ins. and more to 30.2 ins. over Russia, and exceeding 30.2 ins. in two ridges lying one over the southern half of Scandinavia, the other over Ireland and adjacent parts of the Atlantic. Lowest, 29.6 ins. and less to 29.7 ins. in a large and complex (but shallow) depression covering Algeria and Spain, and below 30.0 ins. over nearly the whole of France. Rising steadily over the British Islands later. Algerian depression becoming shallower, and undergoing considerable modification in form.

Thursday, 10th March.

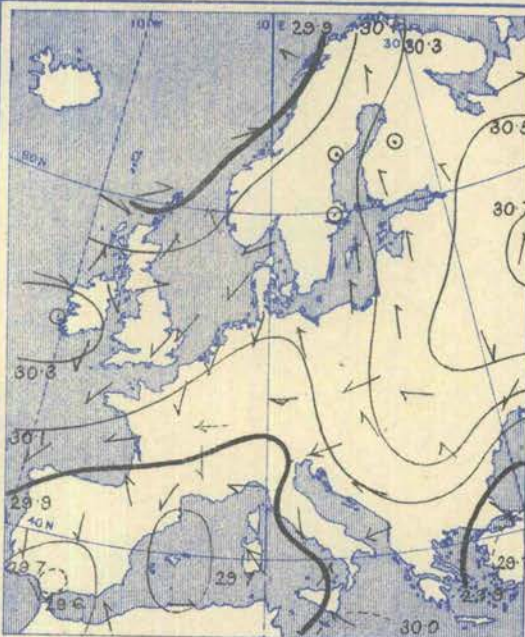
Temperature and Weather.

8 a.m.

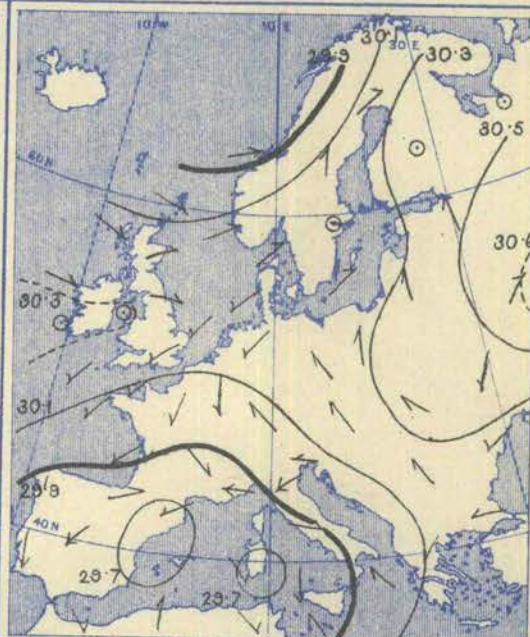


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair generally over the British Islands and Norway, as well as over Russia generally and the greater part of Italy, somewhat unsettled elsewhere, with snow at some stations in northern Europe, as well as at Odessa; considerable rain at Perpignan. Some showers later over the northern and north-western countries, and a heavy fall of rain (3.43 ins.) at Perpignan, 1.1 ins. at Barcelona, 0.6 ins. at Cape Bearn, and 0.75 ins. at Cagliari. Fog and haze becoming prevalent over England.

Temperatures risen a little over Ireland, Scotland, and northern Europe generally; fallen over central Europe. Morning readings highest, 59° at Cagliari, 56° at Malta, 55° at Algiers, 52° at Nice, 51° at Corunna, 46° at Valencia, Malin Head, Ardrossan, and Stornoway, 42° at Sumburgh Head. Lowest, (1) -3° Fahr. at Moscow and Kiev, -1° at Russia, Sweden, and Lapland; (2) 28° to 30° over the Midland counties of England. Rising later to between 50° and 55° over Scotland and the north of Ireland, and to between 45° and 49° over England; touching 53° at Perpignan, 59° at Lisbon, 61° at Nice, 63° at Palermo, and 59° at La Ciotat and Nice.

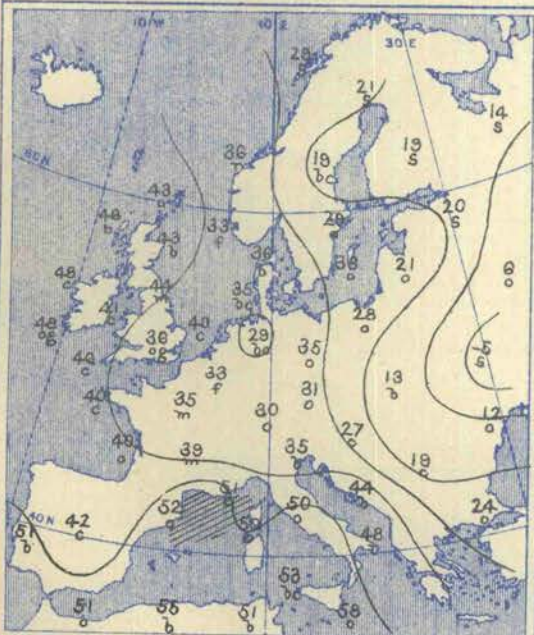
Wind light and anticyclonic over Russia and Finland, as well as over the major part of Ireland and England; varying greatly elsewhere; cyclonic from between West and South over Scotland and the west of Norway, and from between North and North-West (strong to a gale) over the Black Sea. A separate and complex cyclonic circulation observed over the Spanish Peninsula and the greater part of the Mediterranean.

Barometer highest, (1) 30.76 ins. at Moscow, and 30.3 ins. over Russia, Hungary, eastern Germany, the Baltic, and the southern half of Sweden; (2) 30.2 ins. to 30.3 ins. and more over England, Ireland, and adjacent parts of the Atlantic. Lowest, (1) 29.6 ins. at San Fernando, and below 29.7 ins. over the southern half of Spain and the western half of the Mediterranean; (2) below 29.7 ins. in a depression over Asia Minor; (3) below 29.0 ins. in a large low pressure area lying off the west of Norway, and covering the Shetland Isles. Rising over the United Kingdom later, but falling in the north-west of Norway.

Friday, 11th March.

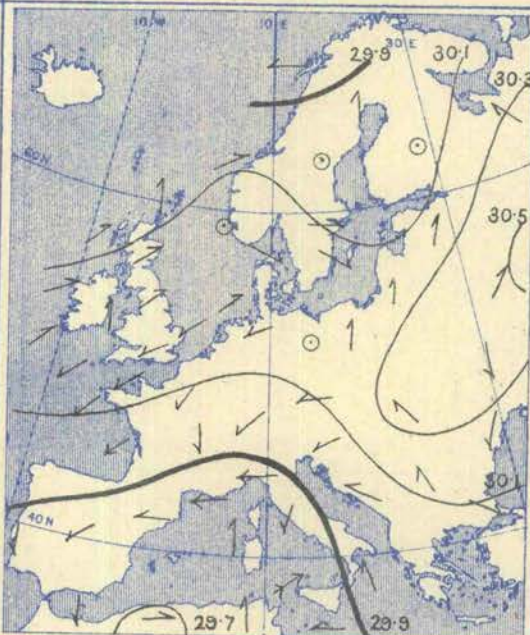
Temperature and Weather.

8 a.m.

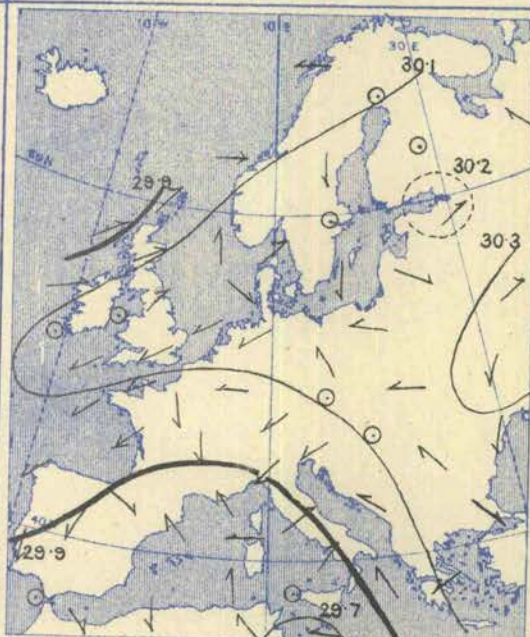


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and dry over England, Ireland, the north of France, the North Sea, and central Europe, dull and hazy at several of the individual stations, clear and bright at others. Rain and snow falling over the north-western half of Norway, snow over Finland and some parts of Russia; still rainy at Perpignan, but over the major part of Great Britain, France and Germany weather remaining dry.

Temperature not changing much anywhere. Morning readings highest, 58° at Malta, 55° at Algiers, 51° at Lisbon, 48° at Valencia and Belmullet, 46° at Stornoway and Leith. Lowest (1) -5° Fahr. at Kiev, +6° at Moscow, 11° at Odessa, and much below the freezing point all over Russia, Lapland, Poland, and Hungary; (2) 28° to 31° over central England. Rising later to between 57° and 59° over Scotland and the north of England, and to between 54° and 56° in Ireland; not touching 40° over the Netherlands.

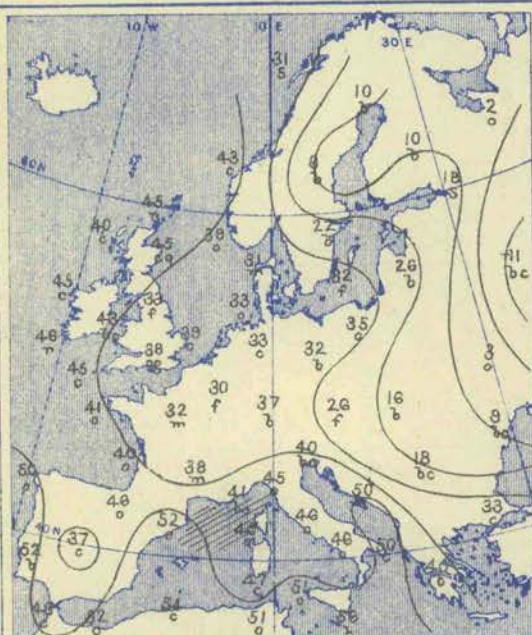
Wind light to moderate in force over the Continent as a whole, (1) Anticyclonic over Russia, Denmark, England and Ireland; (2) Southerly to South-Westerly (cyclonic) over Scotland and the north of Ireland; (3) North-Westerly and Westerly over Sweden, Southerly over the Baltic Provinces and Finland; (4) North-Easterly over France and Spain. Very little change later.

Barometer highest, 30.5 ins. to 30.3 ins. in an anticyclone over Russia, and exceeding 30.2 ins. in a ridge extending thence in a westerly direction over north Germany, the Baltic, Denmark, the North Sea, and England to Ireland. Lowest, (1) Below 29.9 ins. over Lapland, and below 30.0 ins. over the Hebrides; (2) below 29.7 ins. over central Algeria, and below 29.8 ins. over the Mediterranean, and the southern parts of Spain and France. Falling all over the British Islands later, and fall extending to the north-western parts of the Continent.

Saturday, 12th March.

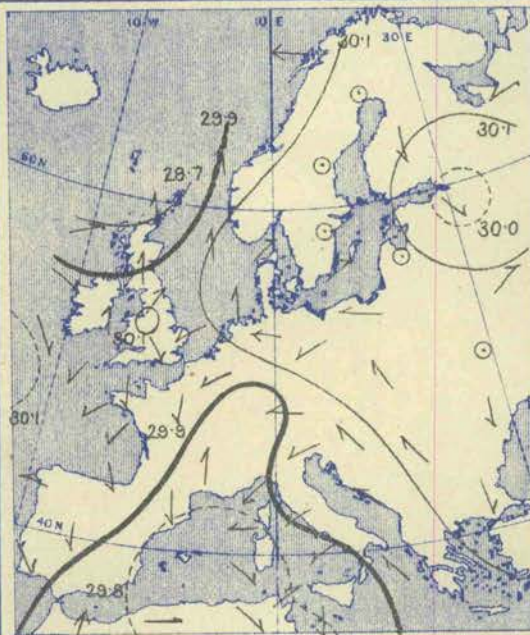
Temperature and Weather.

8 a.m.

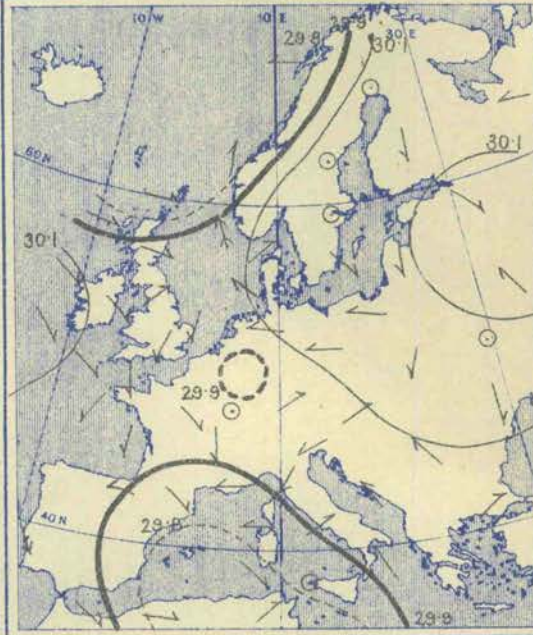


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair and quiet over Russia and central Europe as a whole, as well as over the greater part of France and England, dull, however, in several places, foggy in the south of Sweden, and hazy over the English Channel, and many parts of England, rather rainy in Ireland, and at Sumburgh Head. Rain falling later, in small quantities, at several of our northern and western stations, and at Oxford, but conditions remaining fine over western and central Europe, fair, but dull over Scandinavia.

Temperature in morning highest, 56° at Malta, 54° at Lisbon, 50° at Corunna, 46° at Valencia (Ireland), 45° at Scilly, Belmont, Parsonstown, Nairn, and Sumburgh Head, 43° at Christiansund. Lowest, (1) -11° Fahr. at Moscow, -1° at Kharkov, +9° at Nicolaieff and Kuopio, and much below the freezing point all over Russia and Finland; (2) 28° at Munich, 30° at Brussels, 32° at Paris; (3) 33° at Shields, York and Loughborough. Rising later to 51° in the east of Scotland, and to 50° in several parts of Ireland, and touching 52° at Scilly, as well as at Nice. Succeeding night very cold over England.

Wind very variable both in direction and force, (1) Moderate from between West and South-West over the northern parts of the British Islands, Southerly in the west of Norway; (2) light and anticyclonic from between North-West and North-East over the southern parts of Ireland and England, the north of France, and the Bay of Biscay, and from East and South-East over the greater part of Russia; (3) strong to moderate from North-East and East over the northern shores of the Mediterranean. No great change later.

Barometer highest, (1) 30.40 ins. in the Azores, and exceeding 30.0 ins. over the greater part of Ireland, England, the north-west of France, and the Netherlands; (2) exceeding 30.2 ins. over Sweden, the Baltic, and nearly all the southern half of Russia. Lowest, (1) below 29.7 ins. off the extreme north of Scotland; (2) below 29.3 ins. over the Mediterranean; (3) below 30.0 ins. in a shallow depression near St. Petersburg. Rising over our Islands later, falling over Scandinavia.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: --- = blue sky; $\circ$ = detached clouds; --- = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The weather at the commencement of this week was in a most unsettled condition over the Mediterranean and the western parts of Europe—much rain and snow fell in various places, especially over the southern parts of France and the north of Italy. Over Russia, however, where the barometer was very high, the condition was finer. Temperature was low, and after Monday very strong North-Easterly winds set in over all the southern parts of the British Islands, the Channel, and north of France.

After Tuesday, however, a change was apparent, the barometer continued high over Russia, and became somewhat high over the Atlantic also—a "col" uniting these two regions, and lying directly over England, the North Sea, Denmark, and the Baltic. Westerly (South-West to North-West) breezes began to appear over Scotland and Scandinavia, while, owing to the filling up of the depression over the Mediterranean, the North-Easterly wind over France and England decreased steadily in force, and the weather in all respects became finer and drier than it had been previously. Temperature increased over Ireland and Scotland, but over England and France the nights continued very cold.

Rainfall was very slight over the British Islands generally, but especially over Great Britain, where at many of the stations there was none at all. At the close of the week there were some indications that the westerly current in the north would spread southwards with milder weather.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 56.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
BEERNESS (Orkney Islands)	27.3	?	35	?	WESTBOURNE (Emsworth)	18.7*	- 8.5	24*	-11
STRATHPEFFER SPA	25.7	+ 3.7	33	+ 2	WATERGATE (Emsworth)	10.1	?	13	?
EDINBURGH	27.6	+ 8.9	35	+10	BRIGHTON	20.9	- 4.9	26	- 8
MORPETH	38.0	?	49	?	EASTBOURNE	23.3	- 1.7	29	- 5
NEWCASTLE-ON-TYNE	27.0	?	35	?	VENTNOR HOSPITAL	15.3	?	19	?
OSWALDKIRK (Yorkshire)	31.2	+ 9.2	40	+11	SOUTHPORT	33.2	?	43	?
SHEFFIELD	7.8	?	10	?	COLWYN BAY	39.4	?	50	?
WORKSOP	15.0	- 5.1	19	- 8	TENBY	37.4*	+ 9.2	47*	+10
THURCASTON (Leicestershire)	13.3	- 6.0	17	- 9	NEWQUAY	47.6	+20.5	60	+24
PLUMSTEAD COMMON	17.5	?	22	?	TORQUAY	25.5*	+ 0.5	32*	0
MARGATE	21.6	- 1.3	27	- 3	GUERNSEY	18.8*	-11.0	24*	-15

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C. ; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW ; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

VOL. XV. No. 11.]
Third Series.

WEEK ENDING SATURDAY, MARCH 19TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 6d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 62.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	56	30	47.7	36.7	42.0	3 above	Day-deg. 16	Day-deg. + 7	Day-deg. 15	Day-deg. - 20	Day-deg. 123	Day-deg. + 47	Day-deg. 271	Day-deg. - 160
	1. SCOTLAND, EAST	61	28	50.8	37.2	43.8	5 above	33	+ 20	13	- 24	168	+ 68	282	- 181
	2. ENGLAND, N.E.	61	28	51.2	38.1	44.4	4 above	33	+ 18	11	- 20	209	+ 110	231	- 173
	3. ENGLAND, EAST	63	24	53.8	36.0	44.6	4 above	43	+ 24	17	- 17	176	+ 52	283	- 177
	4. MIDLAND COUNTIES	60	23	52.5	38.2	45.2	4 above	38	+ 18	11	- 23	191	+ 60	266	- 190
	5. ENGLAND, SOUTH	63	27	52.0	39.1	45.4	3 above	36	+ 15	8	- 19	225	+ 75	154	- 213
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	58	26	49.6	39.4	44.4	4 above	28	+ 15	7	- 20	204	+ 91	165	- 164
	7. ENGLAND, N.W.	58	27	49.6	39.7	44.5	3 above	27	+ 13	6	- 20	199	+ 92	145	- 193
	8. ENGLAND, S.W.	57	24	51.3	40.0	46.0	3 above	33	+ 13	3	- 19	260	+ 81	136	- 140
	9. IRELAND, NORTH	59	32	50.6	40.1	45.2	3 above	30	+ 13	5	- 18	241	+ 90	155	- 131
	10. IRELAND, SOUTH	59	29	52.5	42.6	47.4	4 above	38	+ 14	0	- 18	328	+ 102	110	- 109
	— CHANNEL ISLANDS.	56	33	52.3	43.5	47.7	2 above	40	+ 15	0	- 9	364	+ 121	39	- 85

DISTRICTS. (See p. 62.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	10ths of in. 28	10ths of in. 20 more	67	+ 12	17.9	+ 5.7	14	- 7	17	- 10	127	+ 4	18	0
	1. SCOTLAND, EAST	4	2	3 less	44	+ 2	4.0	- 2.4	21	- 3	25	- 5	191	+ 34	28	+ 5
	2. ENGLAND, N.E.	3	1	3 less	35	- 5	2.4	- 2.2	21	- 1	25	- 2	198*	+ 44	28	+ 6
	3. ENGLAND, EAST	3	1	2 less	33	- 7	2.2	- 2.3	23	- 3	29	- 4	182	+ 4	25	0
	4. MIDLAND COUNTIES	3	2	2 less	32	- 6	2.3	- 3.0	20	- 5	24	- 7	165	+ 3	23	0
	5. ENGLAND, SOUTH	3	1	3 less	31	- 6	2.7	- 3.1	16	- 9	20	- 13	171	- 1	25	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	9	1 more	54	+ 7	9.7	- 2.0	18	- 5	23	- 6	161	+ 23	24	+ 3
	7. ENGLAND, N.W.	4	8	3 more	45	+ 3	7.2	+ 0.6	20	- 1	25	- 2	193	+ 52	29	+ 7
	8. ENGLAND, S.W.	4	5	1 less	42	- 1	5.6	- 2.9	19	- 10	23	- 14	204	+ 5	28	+ 1
	9. IRELAND, NORTH	6	5	1 less	55	+ 6	7.4	- 0.4	14	- 8	16	- 11	156	- 1	22	0
	10. IRELAND, SOUTH	4	4	2 less	41	- 4	6.4	- 2.4	9	- 17	10	- 23	179	- 7	25	- 1
	— CHANNEL ISLANDS.	5	2	3 less	50	+ 2	3.9	- 3.4	18	- 18	22	- 24	222	- 6	30	- 1

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period was extremely rainy in the extreme north and north-west of Scotland, but in the other parts of the Kingdom it was generally fair and dry, although much cloud was prevalent, and there were slight falls of rain occasionally.

Temperature was above the mean everywhere, the excess ranging from 2° in the Channel Islands, to 4° in Ireland S. and several parts of Great Britain, and to 5° in Scotland E. The highest of the maxima were registered, as a rule, on the 18th, and ranged from 63° in England E. and S., and 61° in Scotland E. and England N.E., to 57° in England S.W., and 56° both in Scotland N. and the Channel Islands. The lowest of the minima were recorded either on the 13th or 15th, and ranged from 23° in the Midland counties, and 24° in England E. and S.W., to 32° in Ireland N., and 33° in the Channel Islands. During the latter half of the period the minimum readings were much higher, in many cases being but little below 50°.

Rainfall greatly exceeded the mean in Scotland N., and slightly in Scotland W. and England N.W.; in all other districts there was a deficit, the fall over eastern, central, and southern England

being particularly slight. In some localities in the north-west of Scotland the total fall for the week was very heavy; at Glencarron it amounted to 6.41 inches, and at Fort William to 5.31 ins.

Bright Sunshine was deficient in all parts of the Kingdom. The percentage of the possible duration ranged from 29 in England E. to 17 in Scotland N., 16 in Ireland N., and 10 in Ireland S.

Barometer and Wind.—During the whole of this week pressure was highest in the south-west or south, while depressions moving eastwards to Scandinavia affected the winds and weather over the more northern parts of the country. Over the more southern districts slightly disturbed conditions were occasionally brought about by small secondary disturbances. The most important secondary system, however, advanced from north to south over the Kingdom on Friday night and Saturday, and caused the wind, which had previously been Westerly (moderate in the south, and fresh or strong in the north), to veer to the North-Westward and Northward very generally, with cold rain in most places, and a very sudden and general fall of temperature.

II.—DATA from which the SUMMARY on page 61 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.				
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	48	30	44.0	35.9	39.8	+ 1.5	6	22	7	1.34	+ 0.74	*	*	*	*
	Stornoway	51	32	47.0	37.1	41.9	+ 2.3	14	20	7	2.70	+ 1.86	15.6	- 6.5	19	- 10
	Wick	56	30	49.0	36.0	42.3	+ 2.9	27	17	7	0.34	- 0.11	*	*	*	*
	Laing	54	30	49.4	33.1	41.0	+ 3.2	21	35	6	1.65	+ 0.95	*	*	*	*
	Glencarron	49	32	46.2	37.1	41.5	+ 3.5	12	19	7	6.41	+ 4.94	*	*	*	*
	Fort Augustus	55	33	50.0	38.0	43.8	+ 4.3	29	11	7	7.05	+ 1.35	7.92	- 7.0	7.11	- 9
	Fort William	52	35	48.1	39.7	43.8	+ 3.5	22	6	7	5.31	+ 3.99	15.1	- 5.7	18	- 8
1. SCOTLAND, E.	Nairn	60	31	52.1	36.9	44.3	+ 4.6	38	14	6	0.55	+ 0.17	*	*	*	*
	Aberdeen	61	31	52.0	38.1	44.8	+ 4.9	36	11	3	0.09	- 0.41	28.1	+ 2.1	34	+ 1
	Braemar	54	28	46.2	34.4	40.1	+ 3.8	12	28	5	0.28	- 0.24	17.5†	- 7.7†	21†	- 11†
	Ochertyre	59	28	51.1	37.6	44.2	+ 4.5	34	12	5	0.32	- 0.28	*	*	*	*
	Leith	56	32	53.0	38.9	45.7	+ 4.7	39	9	3	0.08	- 0.22	*	*	*	*
	Marchmont	55	36	50.1	?	?	?	?	?	1	0.08	- 0.47	19.3	- 3.5	23	- 6
2. ENGLAND, N.E.	Alnwick Castle	56	32	50.0	38.3	44.0	+ 4.4	30	10	4	0.08	- 0.43	*	*	*	*
	Durham	57	28	52.0	37.4	44.5	+ 4.6	37	13	1	0.01	- 0.46	25.2	+ 0.8	31	0
	Shields	61	32	51.9	38.6	45.1	+ 4.4	36	10	1	0.01	- 0.39	*	*	*	*
3. ENGLAND, E.	Scarborough	58	28	52.3	36.4	44.1	+ 3.1	38	16	4	0.19	- 0.19	20.7	- 2.1	25	- 4
	Spurn Head	55	33	49.6	39.6	44.5	+ 3.8	28	7	4	0.16	- 0.12	*	*	*	*
	Hillington	62	24	54.0	36.3	44.9	+ 3.6	44	16	5	0.16	- 0.20	26.2	+ 1.5	32	+ 1
	Yarmouth	60	27	51.1	35.9	43.3	+ 3.2	35	17	2	0.06	- 0.34	*	*	*	*
	Geldeston	63	26	54.4	36.3	45.1	+ 3.8	46	16	4	0.10	- 0.24	20.4	- 6.6	25	- 9
	Cambridge	63	24	56.6	34.6	45.3	+ 3.6	54	21	2	0.14	- 0.16	20.6	+ 3.5	36	+ 2
	Rothamsted	55	24	52.7	37.0	44.6	+ 3.8	39	14	2	0.18	- 0.20	16.9	- 8.9	21	- 12
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	60	27	52.7	38.4	45.3	+ 4.3	38	10	1	0.02	- 0.23	*	*	*	*
	Loughborough	60	26	53.4	37.6	45.3	+ 3.7	42	12	3	0.19	- 0.17	*	*	*	*
	Stamford (Duddington)	60	26	53.7	38.1	45.7	+ 4.4	42	11	2	0.14	- 0.18	*	*	*	*
	Cheadle	57	30	50.4	38.4	44.2	+ 4.4	31	10	4	0.37	- 0.13	*	*	*	*
	Shirley (near Solihull)	56	29	51.3	37.7	44.3	+ 3.5	34	12	4	0.16	- 0.16	18.4	- 5.8	22	- 8
	Churchstoke	57	27	52.1	40.2	46.0	+ 5.4	36	5	5	0.26	- 0.16	*	*	*	*
	Hereford	57	26	53.7	38.9	46.1	+ 4.2	42	9	2	0.17	- 0.21	*	*	*	*
	Cirencester	54	23	52.4	36.6	44.3	+ 3.7	39	15	3	0.18	- 0.27	19.4	- 5.6	24	- 8
5. ENGLAND, S.	Oxford	55	28	53.1	37.9	45.3	+ 3.5	40	11	2	0.10	- 0.25	19.1	- 5.9	23	- 8
	London	60	27	54.3	36.9	45.3	+ 2.8	45	14	3	0.21	- 0.11	11.5†	- 6.0†	14†	- 8†
	North Foreland	63	33	52.7	39.0	45.7	+ 4.1	39	8	2	0.10	- 0.32	*	*	*	*
	Dungeness	52	30	49.4	38.0	43.5	+ 1.8	27	11	3	0.08	- 0.32	*	*	*	*
	Hastings (St. Leonards)	57	29	50.0	39.8	44.8	+ 2.9	29	6	3	0.24	- 0.18	21.4	- 8.7	26	- 11
	Southampton	63	30	55.3	40.4	47.6	+ 4.6	46	5	3	0.11	- 0.24	12.6	- 15.4	15	- 21
	Hurst Castle	54	34	50.1	40.1	45.0	+ 2.6	29	5	2	0.06	- 0.34	*	*	*	*
6. SCOTLAND, W.	Shaftesbury	57	32	52.2	39.5	45.7	+ 4.9	36	7	3	0.18	- 0.27	*	*	*	*
	Landale (Loch Sunart)	55	36	49.3	40.5	44.8	+ 4.3	26	4	6	0.67	+ 0.15	18.2	- 0.1	22	- 1
	Glasgow	52	38	48.3	41.7	44.9	+ 3.8	22	1	6	0.38	- 0.13	*	*	*	*
	Ardrossan	58	26	51.8	36.6	44.0	+ 4.1	37	15	6	1.40	+ 0.54	*	*	*	*
	Glenlee	52	34	48.2	39.3	43.6	+ 3.6	23	8	7	1.21	- 0.12	18.6	?	23	?
	Gilcrux (Cumberland)	55	30	50.5	39.1	44.6	+ 3.0	30	8	6	0.63	+ 0.02	18.5	- 9.1	23	- 12
7. ENGLAND, N.W.	Douglas (Isle of Man)	54	27	48.4	38.4	43.3	+ 2.8	24	10	4	2.56	+ 1.81	17.9	- 4.4	22	- 6
	Stonyhurst	51	27	48.9	39.0	43.8	+ 2.7	25	8	3	0.13	- 0.39	20.1	- 1.7	25	- 3
	Blackpool	55	29	50.0	38.3	44.0	+ 3.2	30	10	4	0.74	+ 0.22	13.9	?	17	?
	Manchester (Prestwich)	58	30	50.3	38.6	44.3	+ 2.4	30	10	5	0.27	- 0.12	24.4	+ 1.4	30	+ 1
	Liverpool Obsy. (Bidston)	56	35	50.9	41.6	46.1	+ 3.1	30	1	4	0.62	+ 0.18	*	*	*	*
	Llandudno	52	39	48.9	42.3	45.5	+ 2.6	25	0	3	0.45	- 0.05	*	*	*	*
	Holyhead	53	24	51.0	36.7	43.6	+ 1.1	33	15	6	0.77	- 0.03	*	*	*	*
8. ENGLAND, S.W.	Llandovery	49	37	48.4	43.7	46.0	+ 2.9	28	0	4	0.43	- 0.08	17.7	- 11.6	22	- 14
	Pembroke	53	32	51.3	41.7	46.4	+ 3.8	32	1	3	0.76	+ 0.27	*	*	*	*
	Clifton	52	29	49.3	39.0	44.0	+ 3.3	27	8	5	1.15	+ 0.37	*	*	*	*
	Arlington (N. Devon)	57	27	53.9	38.3	45.9	+ 2.3	43	10	3	0.16	- 0.36	12.4	- 14.5	15	- 19
	Cullompton	56	38	52.9	44.4	48.5	+ 4.3	46	0	4	0.31	- 0.39	27.1	- 2.8	33	- 4
	Falmouth	55	30	52.9	42.1	47.3	+ 3.3	37	0	5	0.37	- 0.19	18.5	- 15.6	17	- 19
	Plymouth	54	35	50.7	41.6	46.0	+ 3.1	30	1	5	0.31	- 0.11	*	*	*	*
9. IRELAND, N.	Prawle Point	52	39	48.0	42.7	45.3	+ 2.6	28	0	7	0.49	?	*	*	*	*
	Malin Head	53	36	50.3	40.9	45.5	+ 3.0	29	3	6	0.48	- 0.13	*	*	*	*
	Londonderry	54	33	50.1	39.3	44.5	+ 3.9	29	8	7	0.74	+ 0.17	*	*	*	*
	Edenfel (Omagh)	53	30	50.9	43.0	46.8	+ 2.9	34	0	6	0.40	- 0.46	*	*	*	*
	Belmullet	55	35	51.3	40.9	46.0	+ 4.2	33	2	5	0.94	+ 0.32	13.5	- 8.7	16	- 12
	Markree Castle	56	34	51.4	39.4	45.2	+ 3.9	33	7	5	0.46	- 0.01	13.4	- 8.5	16	- 11
	Armagh	59	33	51.9	39.3	45.4	+ 3.0	35	8	6	0.44	- 0.03	*	*	*	*
10. IRELAND, S.	Donaghadee	54	32	51.1	35.3	43.0	+ 2.2	35	19	3	0.26	- 0.33	*	*	*	*
	Edgeworthstown	59	36	54.0	42.9	48.3	+ 4.8	44	0	3	0.18	- 0.27	9.4	- 16.6	11	- 22
	Dublin	54	35	51.3	41.6	46.3	+ 4.0	32	1	4	0.46	- 0.06	7.1	- 16.9	9	- 21
	Parsonstown	59	29	52.4	40.4	46.2	+ 2.8	36	4	2	0.28	- 0.20	*	*	*	*
	Kilkenny	57	38	51.9	44.3	48.0	+ 3.4	42	0	3	0.44	- 0.31	*	*	*	*
	Roche's Point	54	37	51.9	44.0	47.8	+ 2.1	41	0	5	0.37	- 0.50	9.3	- 18.7	11	- 24
	Valencia	58	32	53.6	42.1	47.7	+ 3.1	40	0	5	0.52	?	*	*	*	*
CHANNEL ISLANDS	Killarney	56	34	52.1	42.9	47.4	+ 4.0	38	0	4	0.66	?	*	*	*	*
	Foynes															
	Scilly (St. Mary's)	56	42	53.4	45.3	49.2	+ 3.3	50	0	4	0.20	- 0.32	23.4	?	29	?
	Jersey	53	33	51.1	41.6	46.2	+ 1.3	31	1	6	0.24	- 0.28	13.9	- 19.5	17	- 25

Stations marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

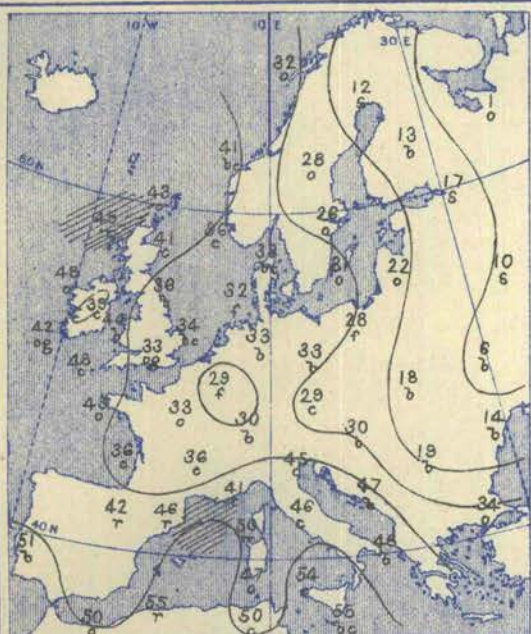
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 13th March.

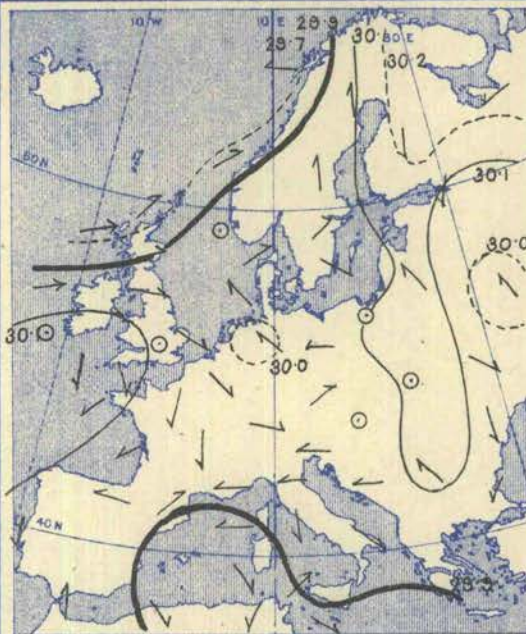
Temperature and Weather.

8 a.m.

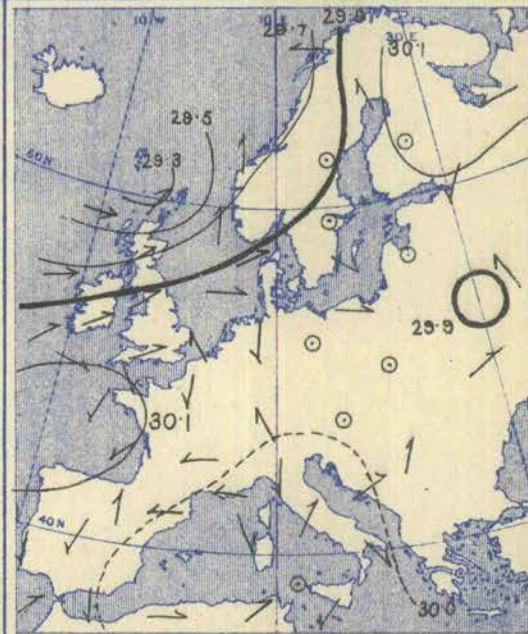


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair and quiet over nearly the whole of Continental Europe and the British Islands, but dull and rainy over Ireland and the north-west of Scotland, and unsettled, with snow, over central Russia. Considerable rain later over the extreme north and north-west of our Islands, and smaller quantities at our northern and western stations generally; slight showers at several of the Mediterranean stations, both in Europe and the north of Africa.

Temperature in morning highest, 48° to 44° on our extreme west and northern coasts, 43° at Sumburgh Head, 41° at Christiansund, and above 40° on our western coasts generally; 51° at Lisbon, 55° at Algiers and Malta. Lowest, 1° Fahr. both at Archangel and Kharkov, 6° at Kiev, 10° at Moscow; 18° at Lemberg, and below the freezing point over the eastern and central parts of Europe; 33° in London and at Paris, 34° at Belfort. Rising later to 50° or more over many parts of Great Britain, to 52° at Oxford, and 54° at Cambridge, and touching 55° at Nice, 65° at Palermo, and 70° at La Calle and Biskra (Algeria).

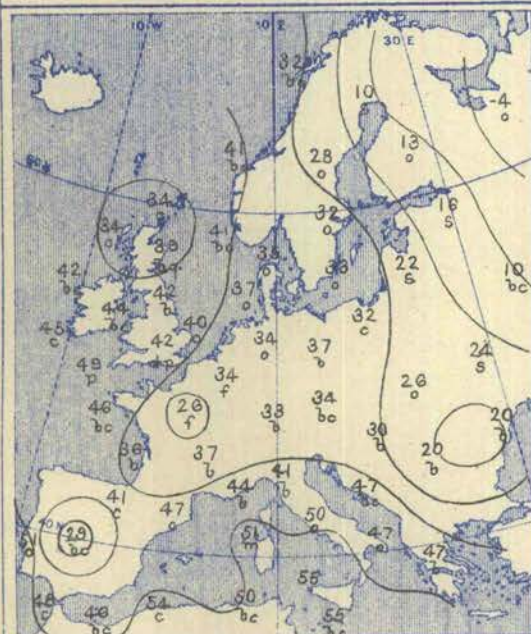
Wind (1) light and exceedingly variable over all but the north-western countries; (2) South-Westerly, fresh to moderate, over the north-western and northern parts of our Islands and the west of Norway, but Southerly to Easterly over Lapland. Fresh South-Westerly to Westerly winds becoming general over Ireland and Scotland later, and light breezes from the Westward over England and the North Sea. No decided change elsewhere.

Barometer highest, 30.2 ins. and more over the north of Russia, and 30.1 ins. and more over the south-western parts of our Islands; exceeding 30.0 ins. over the whole of central and south-eastern Europe. Lowest, below 29.7 ins. over the north of Scotland and the Shetlands, as well as off the coast of Finmark; and below 29.9 ins. over the greater part of the Mediterranean. Falling fast later over the north and north-west of the British Islands, as a depression approached our northern coasts from the south-westward.

Monday, 14th March.

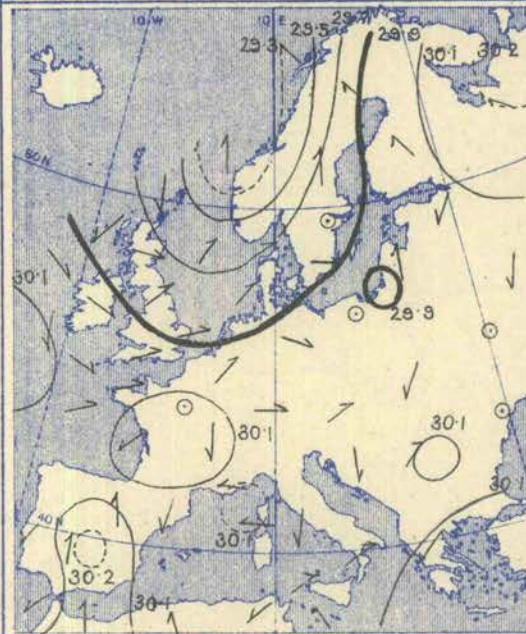
Temperature and Weather.

8 a.m.

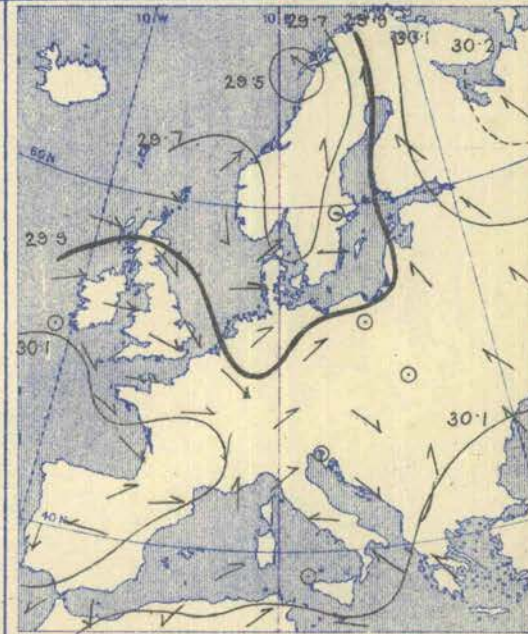


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair and very quiet over southern and central Europe, very fine in the south-east, but foggy or dull in several places, fine over Ireland, Scotland, and Norway, showery over England; snow at several of the Russian stations. Rain ceasing over England later, but spreading to the Netherlands; a fresh fall setting in over the extreme western districts towards night.

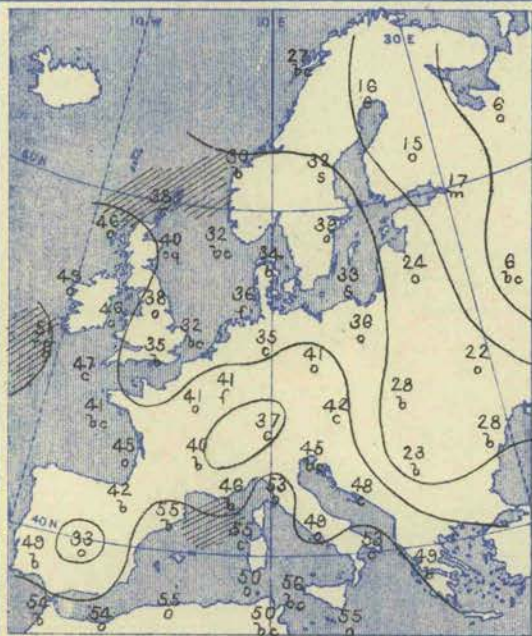
Temperature risen over England and central Europe, fallen fast in Scotland. Morning readings highest, 55° at Malta and Palermo, 51° at Lisbon; 49° at Scilly, 45° at Jersey and Valencia. Lowest, (1) -4° at Archangel, +8° at Kharkov, 10° at Moscow and Uleaborg, 20° at Hermandstadt—much below the freezing point over Russia, northern and south-eastern Europe generally; (2) 26° at Paris, 28° at Le Mans and Limoges. Rising later to between 50° and 55° in many parts of our Islands, and to between 55° and 57° in the south and south-west of France.

Wind (1) very light and mainly anticyclonic over all the southern half of Europe and over Russia; (2) cyclonic, moderate to strong, from between North and West over Scotland and Ireland, but moderate from between South and South-West over the greater part of England and the eastern shores of the North Sea, South-Easterly over Lapland. Shifting to North-West, light, over England later, but showing some tendency to back again in the west of Ireland. Barometer highest, 30.1 ins. and more to 30.0 ins. all over the southern half of Europe, and 30.2 ins. to 30.0 ins. over the northern parts of Russia. Lowest, below 29.4 ins. in a depression off the north-west coast of Norway; below 29.9 ins. in a very small one near Memel; and below 30.0 ins. in a "V"-shaped system over Wales, Cornwall, and Devon. The northern system and the "V" passing away later; but barometer showing a tendency to fall again on our extreme western coasts.

Tuesday, 15th March.

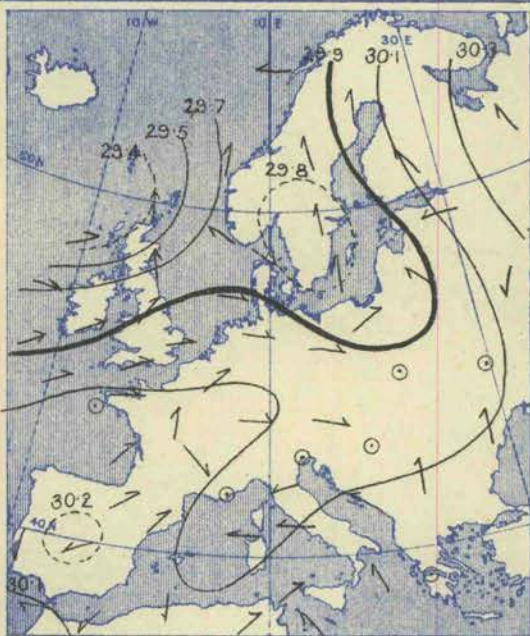
Temperature and Weather.

8 a.m.

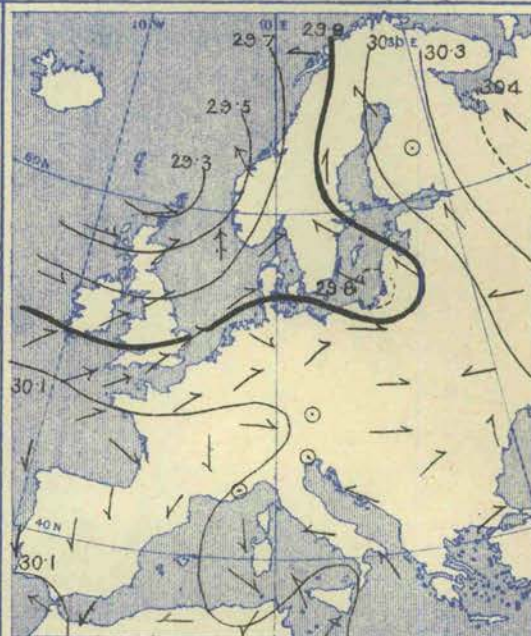


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over many parts of the south-western, southern and south-eastern countries of Europe, but dull in places, fair also over England and Norway, foggy in the Netherlands, rather rainy over Ireland. Some rain falling later over the greater part of the United Kingdom and the north of France, snow in Sweden and Denmark. Bright aurora seen over the northern half of the British Islands and at the Scaw.

Temperature rising in the west of our Islands and over France and Germany, fallen over England. Morning readings highest, (1) 56° at Palermo, and above 50° at many of the Mediterranean stations; (2) 51° at Valencia (Ireland), 46° at Stornoway. Lowest, (1) -1° Fahr. at Kharkov, +6° at Moscow and Archangel, and below the freezing point over Russia, Finland and Lapland generally; (2) 30° at York and Cambridge, 31° at Loughborough, 32° at Oxford. Rising later to between 50° and 55° over many parts of the United Kingdom, touching 57° at Rochefort and Nice, and 60° at Perpignan. Succeeding night mild over the British Islands generally.

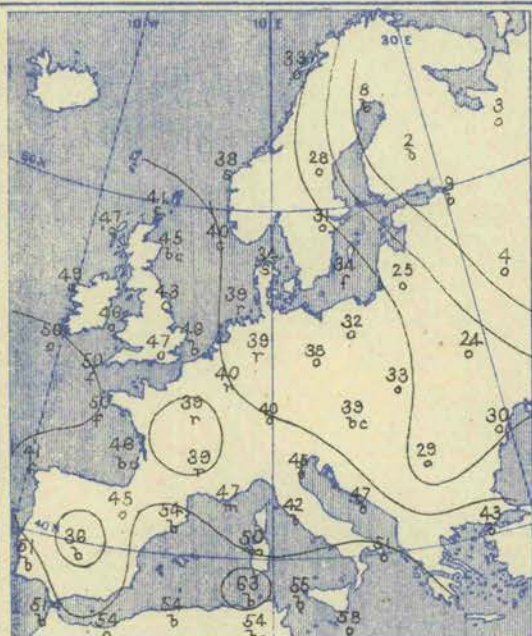
Wind very light and variable over Continental Europe, light from between West and South over England, strong from South-West and South over Ireland and Scotland. Varying greatly later from between South-West and West over our Islands, and moderating in force at the Irish and Scotch stations.

Barometer (1) highest, 30.2 ins. and more to 30.0 ins. over all the southern half of Europe; (2) 30.3 ins. and more to 30.0 ins. over Finland and the north and east of Russia. Lowest, 29.4 ins. over the Hebrides and the north of Scotland and the neighbouring parts of the Atlantic; below 29.3 ins. over the southern half of Sweden, and below 29.0 ins. over eastern Prussia and the Baltic Provinces. Falling over Great Britain and Norway, but rising somewhat over Ireland and the west of Scotland.

Wednesday, 16th March.

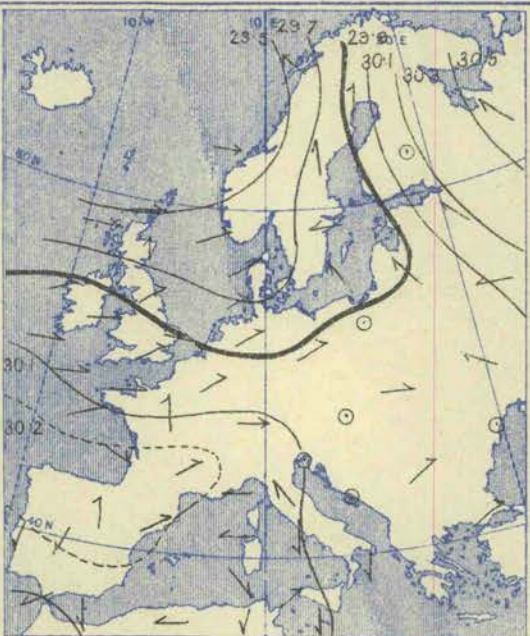
Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over south-eastern, southern, and south-western Europe, as well as at some stations in the east of England and the north of Russia; cloudy or overcast elsewhere, with rain in several parts of France, the Netherlands and Germany, snow over eastern Prussia and at some of the Norwegian stations. Snow falling over Sweden later, considerable rain over the Shetlands and Hebrides, and slight showers over the northern parts of our Islands generally, as well as at several stations in France and Germany.

Temperature risen over Great Britain, fallen over Finland and the north of Russia. Morning readings highest, 58° at Malta, 54° at Algiers and Barcelona; 51° at Lisbon, 50° at Lorient, Jersey, Scilly and Valencia (Ireland), 49° at Belmullet, 47° at Stornoway and in London. Lowest, 2° Fahr. at Kuopio, 3° at Archangel, 4° at Moscow, 5° at Kharkov, 9° at Helsingfors; not below freezing point at any of the stations in central and western Europe. Rising later to between 60° and 57° over the greater part of the British Islands and France, and touching 60° at Perpignan and 64° at Lisbon.

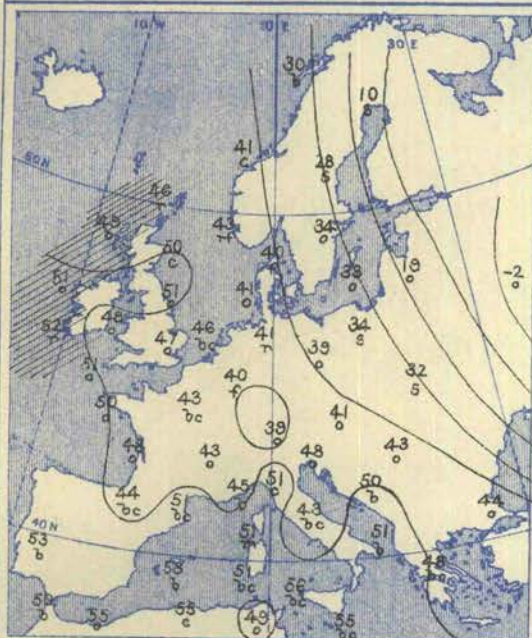
Wind light to moderate in force and very variable in direction over all the southern, central and eastern countries of Europe—moderate in force, but cyclonic in direction over the north-western countries—viz., South-Westerly to North-Westerly over the British Islands and the Netherlands, South-Westerly to Southerly over Holstein and Denmark, Southerly to South-Easterly over Sweden and Lapland. Backing somewhat in the north of Ireland later, and becoming strong at Malin Head.

Barometer highest, (1) 30.2 ins. and more to 30.0 ins. over the western and southern countries generally; (2) 30.5 ins. and more to 30.0 ins. over Russia and Finland. Lowest, below 29.5 ins. over the Shetlands and the north-west of Norway, and apparently still lower over the adjacent parts of the Atlantic; some very shallow secondary disturbances observed over the British Islands, the North Sea, the Baltic, and central Europe. No decided change later.

Thursday, 17th March.

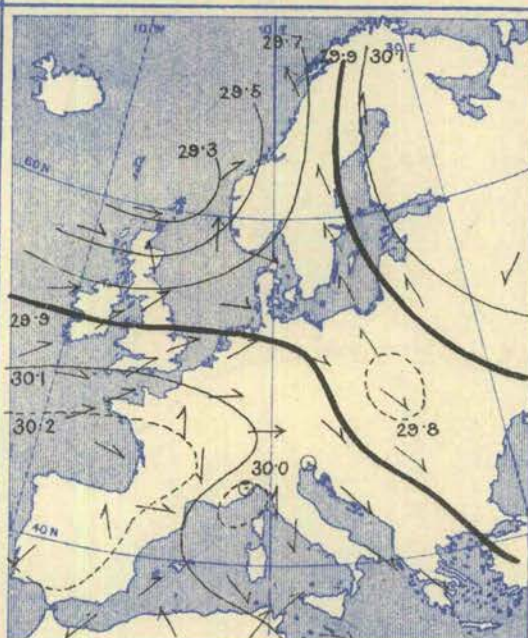
Temperature and Weather.

8 a.m.

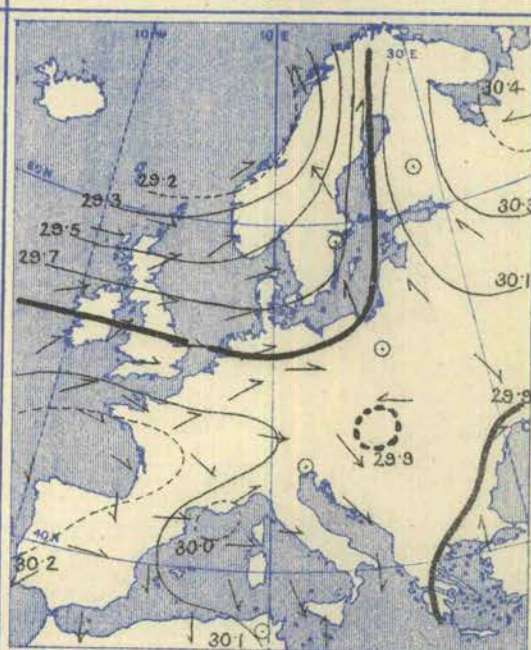


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the Mediterranean and the south-west, south and south-eastern countries of Europe, as well as in the extreme north of Norway, cloudy or overcast elsewhere, with rain at some of the western and north-western stations, as well as at Dungeness. Considerable rain later over the Hebrides, Shetlands and some parts of Scandinavia, and smaller quantities over Scotland, Ireland and many parts of Germany and the Baltic Provinces, fog or haze at several of our southern stations.

Temperature in morning highest, 56° at Palermo, 55° at Malta and Algiers, 53° at Lisbon; 52° over the southern half of Ireland and the north-east of Scotland, 51° at Scilly, 49° at Stornoway. Lowest, -2° Fahr. at Moscow, +10° at Haparanda, and much below the freezing point at all the Russian stations from which reports had arrived. Rising later to between 50° and 57° over almost the whole of our Islands and the south of France, and touching 60° at Perpignan, 64° at Lisbon and Cagliari, 66° at Croisette and 68° at La Calle.

Wind very light and anticyclonic both over Russia and western Europe; but Westerly to South-Westerly (cyclonic), and moderate over the British Islands, Southerly to South-Easterly over Scandinavia, and blowing a gale from South-East at Bodö. Slight cyclonic circulations over central Europe and the south of France. Freshening over our Islands later, but veering a little in direction—no decided change elsewhere.

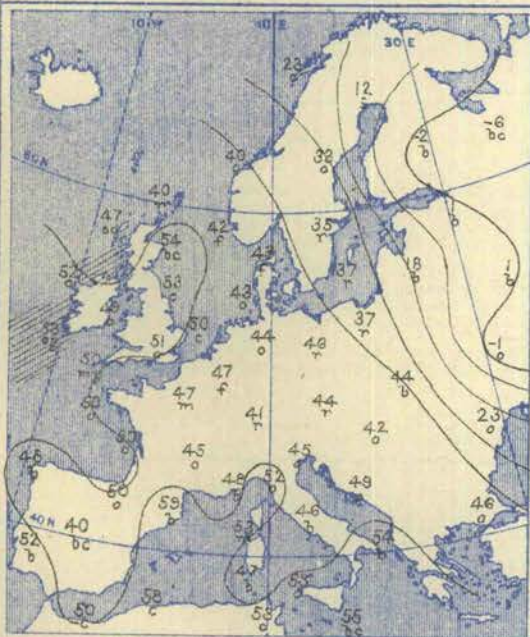
Barometer in morning highest, (1) 30.35 ins. over the Azores, and 30.2 ins. or more to 30.0 ins. over western and central Europe generally; (2) 30.1 ins. or more (probably much more) over northern Europe. Lowest, below 29.3 ins. over the Shetlands and west of Norway; below 29.3 ins. over Poland and Hungary, and below 30.0 ins. over the Riviera and northern parts of the Mediterranean. Hardly any change later.

* Very few of the Russian reports have been received.

Friday, 18th March.

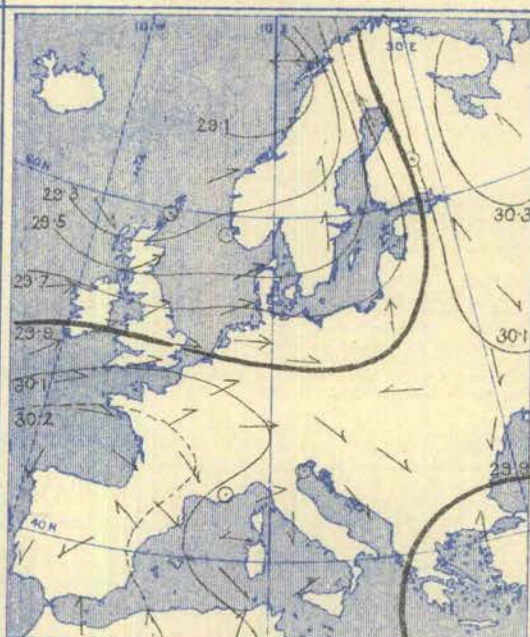
Temperature and Weather.

8 a.m.

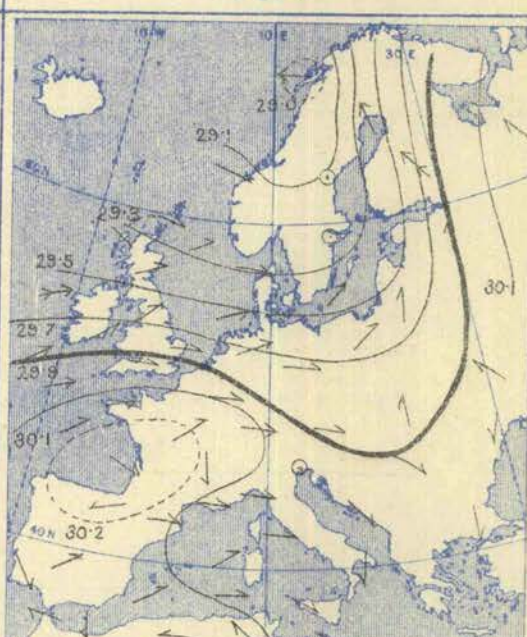


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright (1) over the Spanish Peninsula and the Mediterranean, (2) over Finland and the north of Russia; cloudy or overcast elsewhere, and becoming unsettled—rain falling very generally over Germany and the south of Sweden, as well as over several of the western and northern parts of our Islands, snow at Haparanda (Gulf of Bothnia). Further fall of snow and cold rain later over the northern districts, and of warmer rain over Ireland and the northern half of England.

Temperature in morning highest, 50° at Barcelona, 58° at Algiers, 55° at Malta, 54° at Brindisi; 50° along the west coast of France and at Scilly, but 54° to 51° at most of the Irish and Scotch stations. Lowest, 6° F. to +1° over almost the whole of Russia, 12° at Haparanda, but 30° at Warsaw. Rising later to between 60° and 63° in many parts of England and Scotland, but much less high over Ireland. Touching 59° at Nice and 63° at Perpignan. Falling rapidly over Scotland at night.

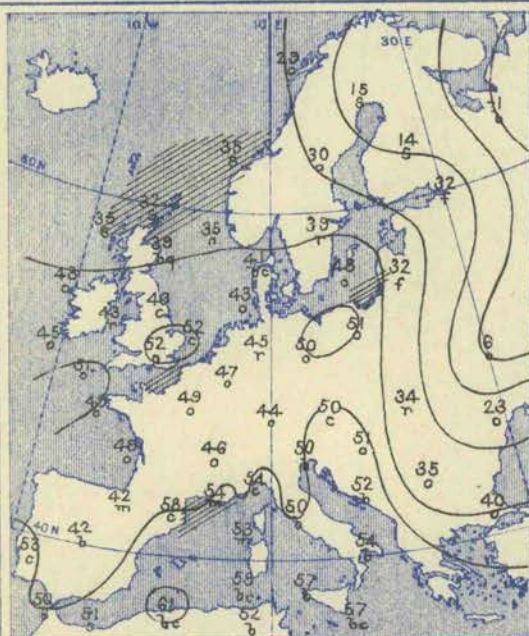
Wind (1) light in force and very variable in direction over all the southern and eastern countries; (2) very strong from the Westward on our north-west coasts, moderate over England and the North Sea, but very strong from the Southward over the Baltic, and from South-East and East over Lapland. Becoming strong at times later, from the Westward over England, but falling light in Scotland.

Barometer highest, (1) 30.4 ins. at Archangel, and exceeding 30.0 ins. over nearly the whole of Russia; (2) 30.3 ins. in the Azores, and ranging from 30.2 ins. and more to 30.0 ins. over Spain, France, south and west Germany and the southern parts of the United Kingdom. Lowest, 29.1 ins. and less to 29.2 ins. over the north-west of Norway, the Shetland Isles and adjacent parts of the Atlantic, and below 29.7 ins. in a "hollow" over north Germany. Falling all over Ireland, England and the North Sea during day, but beginning to rise in Scotland.

Saturday, 19th March.

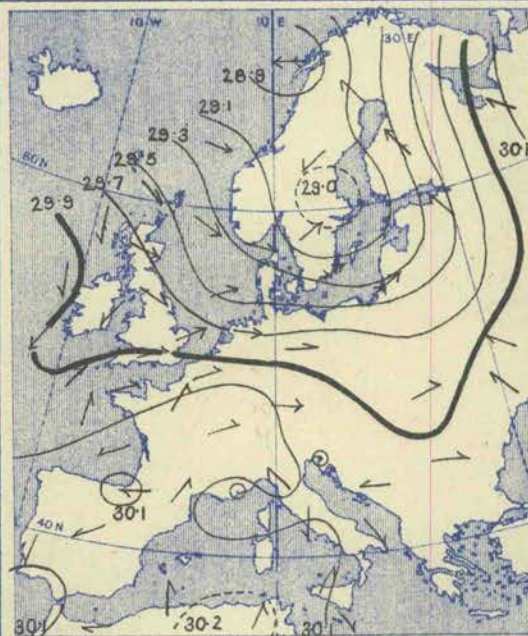
Temperature and Weather.

8 a.m.

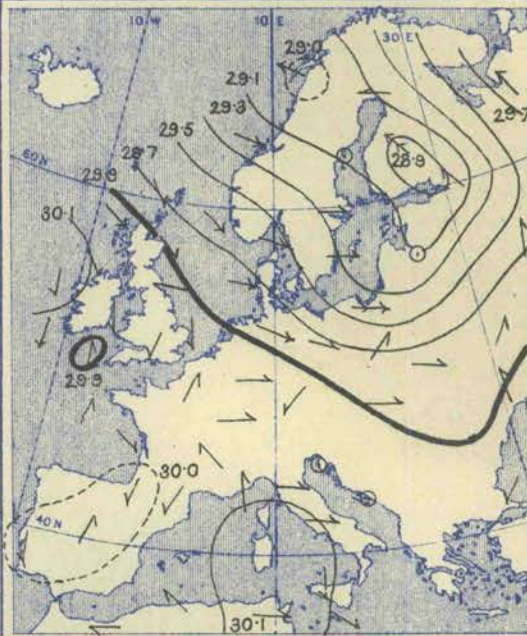


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine at most of our own northern stations, but snow falling in the Shetlands and Hebrides. Fine also over Italy, the Spanish Peninsula and the extreme south of France; cloudy or dull elsewhere, with rain in many parts of England and the south of Ireland, and snow at some of the Scandinavian and northern Russian stations. Rain falling later over nearly the whole of Ireland, England and the neighbouring parts of the Continent, and snow in the north of Scotland.

Temperature fallen over Ireland, the northern parts of Great Britain and the west coasts of France and Norway, risen in most other localities. Morning readings highest, 61° at Algiers, 58° at Barcelona and 57° at Palermo and Malta; above 50° at the Mediterranean, Adriatic and Spanish coast stations generally. Lowest, -9° Fahr. at Kharkov, -1° at Archangel, +6° at Kiev and 12° at Nicolaieff; below the freezing point over the northern parts of Scandinavia and very little above it in the north of Scotland. Rising during day to 50° and upwards in many parts of the United Kingdom, exceeding 60° in Spain and Italy, and reaching 70° at Lisbon, Madrid and San Fernando.

Wind moderate to strong from the Northward or North-Westward over Ireland, the northern parts of Great Britain and the west of Norway, but from the South-Westward over the south of England and the Netherlands. Westerly over Denmark, the south of Sweden, and the greater part of central Europe, with a gale at several of the Baltic stations; strong to a gale from the South-Eastward over northern Russia, and from the Eastward in the north of Scandinavia. Variable over Italy, the Adriatic, and the south of France; Easterly or North-Easterly over the Spanish Peninsula and the south-west of France. Subsequently shifting to the North-Eastward in the south-east of England.

Barometer highest, 30.1 ins. and upwards in an anticyclone covering nearly the whole of France, Spain, and the western parts of the Mediterranean, as well as in another system over Russia. Lowest, 28.9 ins. and less in a depression off the north-west of Norway; 29.0 ins. and less in another disturbance over the southern parts of the Gulf of Bothnia; 29.9 ins. and less in a secondary system over the south-west of our Islands. Depressions in north moving eastwards; secondary system passing south-eastwards and gradually filling up.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\rightarrow$ = a light breeze; $\rightarrow\rightarrow$ = a fresh to strong breeze; $\rightarrow\rightarrow\rightarrow$ = a gale; $\rightarrow\rightarrow\rightarrow\rightarrow$ = a heavy gale. In the left-hand Chart the weather is indicated as follows: $\rightarrow$ = blue sky; $\circ$ = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this week the barometer was almost constantly highest over France, the Bay of Biscay, and Spain, lowest to the northward of the British Islands, the gradients being sometimes steep—more particularly over Scotland and Scandinavia. The dominant wind was consequently Westerly (South-West to North-West), the weather frequently showery at the northern and western stations, and occasionally in the east and south also. The rainfall, however, was much below the mean, except in the extreme north-west of Scotland, the fall at Stornoway being more than 2½ inches, while over the more eastern and southern regions it was less than an inch, and at Yarmouth it was only just a measurable quantity.

The changes of temperature were unusually well marked. Thus on the morning of Sunday, the 13th, the minima recorded in the screen were considerably below 32° over the inland part of England, and while the highest of the subsequent maxima touched 54° at Cambridge and 52° at Oxford, those over the northern half of England did not exceed 50°, and Ireland and Scotland were rather colder. Day by day, however, the air became milder; on Wednesday the maxima ranged from 54° to 57° both over England and the east of Scotland, and on Friday the highest values were 52° to 54° at the Irish stations, 53° to 61° in the east of Scotland, and 60° to 63° over England, while frost in the early morning was absent, except at some of the Scotch stations.

An abrupt change now took place—for with a shift of wind from South-West to North-West (and in some places to North and North-East) the thermometer fell very fast—first in the northern district and later on in the south, so that by the close of the week cold Northerly (North-West to North-East) winds were prevalent all over the Kingdom, showers of cold rain, sleet or snow accompanying the change in most places.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 62.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	15.0	?	18	?	WESTBOURNE (Emsworth)	14.5*	-15.7	16*	-20
STRATHPEFFER SPA	17.2	-7.0	21	-11	WATERGATE (Emsworth)	11.7	?	14	?
EDINBURGH	18.3	-2.5	22	-4	BRIGHTON	13.5	-14.7	16	-20
MORPETH	20.9	?	25	?	EASTBOURNE	25.4	-3.6	31	-6
NEWCASTLE-ON-TYNE	15.7	?	19	?	VENTNOR HOSPITAL	17.8	?	22	?
OSWALDKIRK (Yorkshire)	22.3	-2.2	27	-4	SOUTHPORT	21.8	?	27	?
SHEFFIELD	? 23.6	?	? 29	?	COLWYN BAY	22.6	?	28	?
WORKSOP	15.3	-6.9	19	-9	TENBY	15.3*	-16.2	19*	-20
THURCASTON (Leicestershire)	21.2	+0.1	26	0	NEWQUAY	23.0	-6.8	28	-9
PLUMSTEAD COMMON	10.0	?	12	?	TORQUAY	24.3*	-4.7	30*	-7
MARGATE	24.0	-2.0	29	-3	GUERNSEY	15.9*	-16.0	19*	-22

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

VOL. XV. No 12.]
Third Series.

WEEK ENDING SATURDAY, MARCH 26TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 68.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	50	24	44.8	33.7	39.1	1 below	Day-deg. 8	Day-deg. - 2	Day-deg. 30	Day-deg. - 4	Day-deg. 131	Day-deg. + 45	Day-deg. 301	Day-deg. - 164
	1. SCOTLAND, EAST	56	27	45.5	33.8	39.6	1 below	10	- 5	31	- 4	178	+ 63	313	- 185
	2. ENGLAND, N.E.	56	24	45.3	32.4	38.7	3 below	9	- 8	35	+ 5	218	+ 102	265*	- 169
	3. ENGLAND, EAST	56	24	45.0	30.2	37.4	5 below	8	- 13	42	+ 10	184	+ 39	325	- 167
	4. MIDLAND COUNTIES	55	23	45.9	30.1	37.9	4 below	11	- 13	44	+ 11	202	+ 47	310	- 179
5. ENGLAND, SOUTH	55	26	45.5	32.1	38.6	4 below	10	- 13	36	+ 10	235	+ 62	190	- 203	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	52	26	46.2	34.0	39.9	2 below	12	- 3	30	+ 3	216	+ 88	195	- 161
	7. ENGLAND, N.W.	51	29	44.7	33.9	39.2	4 below	8	- 8	30	+ 4	207	+ 84	175	- 189
	8. ENGLAND, S.W.	57	21	46.9	32.7	39.6	4 below	14	- 8	35	+ 14	274	+ 73	171	- 126
	9. IRELAND, NORTH	56	26	48.8	35.1	41.7	1 below	19	- 1	27	+ 4	260	+ 89	182	- 127
	10. IRELAND, SOUTH	56	23	48.8	33.3	40.8	4 below	19	- 7	19	+ 1	347	+ 95	129	- 108
	—CHANNEL ISLANDS.	52	32	47.3	38.5	42.8	3 below	20	- 6	10	+ 2	384	+ 115	49	- 83

DISTRICTS. (See p. 68.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10ths of in. 4	10ths of in. 4 less	71	+ 10	18.3	+ 5.3	32	+ 6	37	+ 7	160*	+ 13	20	+ 1	
	1. SCOTLAND, EAST	4	3	2 less	48	+ 2	4.3	- 2.6	31	+ 6	36	+ 5	222	+ 40	29	+ 5	
	2. ENGLAND, N.E.	5	6	1 more	40	- 4	3.0	- 2.0	28	+ 6	33	+ 5	226	+ 50	29	+ 6	
	3. ENGLAND, EAST	5	10	6 more	38	- 6	3.2	- 1.7	28	- 1	33	- 2	210	+ 3	26	0	
	4. MIDLAND COUNTIES	4	4	1 less	36	- 5	2.7	- 3.0	29	+ 3	34	+ 4	195	+ 7	25	+ 1	
5. ENGLAND, SOUTH	4	7	3 more	35	- 6	3.4	- 2.9	28	- 1	33	- 1	199	- 1	26	0		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	2	7 less	57	+ 6	9.9	- 2.6	45	+ 21	52	+ 24	206	+ 45	28	+ 6	
	7. ENGLAND, N.W.	3	2	4 less	48	+ 2	7.4	+ 0.2	45	+ 23	52	+ 26	238	+ 75	32	+ 9	
	8. ENGLAND, S.W.	3	1	5 less	45	- 1	5.7	- 3.4	44	+ 12	52	+ 13	248	+ 17	31	+ 2	
	9. IRELAND, NORTH	2	1	5 less	57	+ 4	7.5	- 0.9	49	+ 28	57	+ 29	205	+ 27	26	+ 3	
	10. IRELAND, SOUTH	1	less than 1	6 less	42	- 6	6.4	- 3.0	48	+ 19	56	+ 21	227	+ 12	29	+ 2	
	— CHANNEL ISLANDS.	4	4	1 less	54	+ 2	4.3	- 3.6	37	- 1	44	- 2	259	- 7	31	- 1	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period varied greatly in different parts of the Kingdom. During the first few days it was fair in all districts, and dry at all except our extreme north-western and northern stations. This condition continued throughout the week over Ireland, but after Tuesday very rough and squally weather spread over Great Britain from the north-westward and continued to prevail during the remainder of the period, with very frequent showers of snow, sleet, hail and cold rain, especially over the eastern and south-eastern parts of England.

Temperature was below the mean in all districts, the deficit ranging from 1° in Scotland E., and Ireland N., to 4° or 5° in nearly all the English districts, and in Ireland S. The highest of the maxima were registered during the earlier part of the week, and ranged from 57° in England S.W., and 56° in several other districts to 51° in England N.W., and 50° in Scotland N. Towards the end of the period the daily maxima were very low generally, and were less than 40° at several of our eastern and south-eastern stations. The lowest of the minima were registered on very irregular dates; they varied from 21° in England S.W. (at Llandoverly on the 21st) and 23° in Ireland S. and the Midland Counties, to 29° in England N.W., and to 32° in the Channel Islands.

Rainfall (consisting mostly of melted snow and hail) exceeded the mean in England N.E., E., and S. In all other districts there was a deficit, the deficiency over Ireland and the S.W. of England being very marked.

Bright Sunshine was much above the mean in all the western parts of the Kingdom, and somewhat above it in the N.E.; in England S. and E., and the Channel Islands, however, it was deficient. The percentage of possible duration ranged from between 52 and 57 in the "grazing" districts to 33 in England S., England E. and England N.E.

Barometer and Wind.—During the earlier part of the week the distribution of pressure was anticyclonic, and the winds North-Westerly in the north, and Easterly or North-Easterly in the south. Late on Tuesday, however, a depression appeared to the northward of Scotland, and during the next twenty-four hours travelled south-eastwards to the Netherlands and Germany. This disturbance caused fresh or strong gales from the North-Eastward or Northward over all except the north-western parts of the Kingdom. Owing to the presence of secondary systems in the rear of the depression, and the formation of new systems over Switzerland and south Germany, the gales continued to blow with great force until the end of the period.

II.—DATA from which the SUMMARY on page 67 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42° F.	Below 42° F.	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	47	31	43.0	33.0	37.9	-1.0	3	32	5	0.41	-0.16	*	*	*
	Stornoway	48	32	45.3	34.7	39.8	-0.3	9	26	4	0.32	-0.48	33.2	+9.2	39
	Wick	46	31	44.1	35.3	39.6	-0.3	6	24	4	0.13	-0.29	*	*	*
	Lairg	49	24	45.8	29.7	37.5	-1.3	11	44	3	0.22	-0.46	*	*	*
	Glencarron	49	29	44.8	33.0	38.7	-0.1	8	32	4	1.23	-0.16	*	*	*
	Fort Augustus	50	33	45.3	34.9	40.0	0.0	9	26	4	0.18	-0.40	23.7	+5.7	28
	Fort William	48	31	45.6	35.5	40.4	-0.4	10	24	4	0.35	-0.77	31.7	+9.3	37
1. SCOTLAND, E.	Nairn	48	31	46.0	34.1	39.9	-0.5	11	29	4	0.37	+0.05	*	*	*
	Aberdeen	52	31	45.0	34.9	39.8	-1.0	8	26	5	0.34	-0.16	36.2	+8.0	42
	Braemar	46	27	40.7	30.6	35.5	-2.0	0	46	5	0.37	-0.13	29.5†	+2.8†	34†
	Ochertyre	55	30	49.4	34.4	41.7	+1.1	21	30	2	0.07	-0.58	*	*	*
	Leith	56	31	47.3	35.1	41.0	-0.9	15	26	5	0.28	-0.08	*	*	*
	Marchmont	51	?	44.3	?	?	?	?	?	5	0.61	+0.03	33.3	+9.3	39
2. ENGLAND, N.E.	Alnwick Castle	51	24	44.7	30.9	37.6	-2.5	8	39	5	0.62	+0.07	*	*	*
	Durham	54	29	44.8	31.2	37.8	-3.3	8	38	5	1.02	+0.52	23.6	-2.7	27
	Shields	52	29	44.7	33.1	38.7	-2.5	8	32	5	0.58	+0.16	*	*	*
	Scarborough	56	29	48.0	33.4	40.5	-1.4	17	33	3	0.30	-0.15	27.1	?	32
	York	54	29	46.1	31.3	38.5	-3.4	11	39	5	0.69	+0.27	40.5	+15.5	47
	Spurn Head	49	29	43.6	34.6	39.0	-2.4	4	26	4	0.26	-0.03	*	*	*
3. ENGLAND, E.	Hillington	53	24	44.7	29.2	36.7	-6.1	8	45	5	1.56	+1.17	27.4	+1.0	32
	Yarmouth	46	30	42.0	33.0	37.4	-3.7	0	32	5	0.86	+0.41	*	*	*
	Geldeston	53	26	45.5	30.6	37.8	-4.5	10	41	5	1.20	+0.81	30.2	+0.3	36
	Cambridge	56	25	47.7	28.7	37.9	-4.9	16	48	4	0.71	+0.38	26.6	-2.4	31
	Rothamsted	53	26	44.9	29.5	37.0	-4.8	8	44	5	0.46	+0.05	24.2	-3.8	29
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	51	27	46.1	30.0	37.8	-4.3	11	43	5	0.61	+0.20	*	*	*
	Loughborough	55	27	47.3	30.1	38.5	-4.2	15	44	5	0.49	+0.09	*	*	*
	Stamford (Duddington)	52	26	45.3	29.4	37.1	-5.3	9	45	4	0.92	+0.54	*	*	*
	Cheadle	52	28	44.7	30.6	37.4	-3.7	8	40	5	0.35	-0.18	*	*	*
	Shirley (near Solihull)	52	27	44.9	30.0	37.2	-4.6	8	42	4	0.19	?	*	*	*
	Churchstoke	53	24	44.6	?	?	?	?	?	5	0.17	-0.29	34.7	+7.9	41
	Hereford	55	23	48.0	29.8	38.9	-7.4	17	47	2	0.07	-0.34	*	*	*
	Cirencester	53	27	46.4	30.1	38.0	-3.6	12	43	3	0.17	-0.33	34.9	+7.9	41
	Oxford	52	27	46.0	30.7	38.1	-4.7	11	41	4	0.30	-0.10	23.8	-3.4	28
5. ENGLAND, S.	London	50	27	44.9	31.7	38.1	-5.5	8	37	4	0.61	+0.24	14.8†	-5.6†	17†
	North Foreland	45	31	42.6	34.0	38.2	-3.1	2	28	4	0.99	?	*	*	*
	Cranley	54	26	46.3	30.0	37.9	-5.2	12	43	4	1.02	?	*	*	*
	Dungeness	50	26	45.4	31.3	38.1	-4.5	10	38	4	0.72	+0.23	*	*	*
	Hastings (St. Leonards)	49	28	44.0	32.5	38.1	-4.8	6	34	4	1.79	+1.29	32.7	-0.1	38
	Southampton	55	29	48.2	31.9	39.8	-4.2	17	38	4	0.35	-0.13	32.4	+1.6	38
	Hurst Castle	55	30	48.1	33.3	40.5	-2.9	17	33	4	0.14	-0.33	*	*	*
	Shaftesbury	53	26	44.6	31.9	38.1	-3.7	7	36	4	0.24	-0.23	*	*	*
6. SCOTLAND, W.	Landale (Loch Sunart)	51	29	47.2	33.6	40.2	-2.1	15	32	5	0.46	-0.87	*	*	*
	Glasgow	49	31	45.2	35.5	40.2	-0.8	9	24	1	0.07	-0.50	35.0	+14.5	41
	Ardrossan	52	31	47.0	37.1	41.9	-0.1	14	20	0	—	-0.58	*	*	*
	Glenlee	52	26	46.4	30.3	38.1	-2.5	12	42	3	0.07	-0.81	*	*	*
	Gilcrux (Cumberland)	50	28	44.4	32.6	38.3	-2.6	7	33	6	0.14	?	40.0	?	47
	Douglas (Isle of Man)	52	32	46.8	34.6	40.5	-1.6	13	28	4	0.17	-0.51	58.8	+28.2	68
7. ENGLAND, N.W.	Stonyhurst	48	29	43.1	31.9	37.3	-4.3	3	35	5	0.40	-0.35	44.6	+20.1	52
	Blackpool	51	28	46.8	33.8	40.1	-2.0	13	31	3	0.07	-0.47	50.1	+27.6	58
	Manchester (Prestwich)	49	29	44.1	31.4	37.6	-4.5	6	38	5	0.34	-0.22	36.1	?	42
	Liverpool Obsy. (Bidston)	49	31	43.9	34.7	39.2	-3.7	5	26	2	0.06	-0.38	*	*	*
	Llandudno	51	33	44.9	35.1	39.9	-4.2	8	25	2	0.09	-0.40	46.3	+23.1	54
	Holyhead	49	35	45.1	36.7	40.8	-3.1	9	20	1	0.06	-0.44	*	*	*
8. ENGLAND, S.W.	Llandovery	57	21	50.0	27.6	38.4	-5.0	22	53	4	0.16	-0.62	*	*	*
	Pembroke	49	32	45.6	35.7	40.5	-3.4	10	24	4	0.06	-0.46	50.0	+18.1	59
	Clifton	54	29	46.3	33.4	39.7	-3.7	12	32	2	0.08	-0.45	*	*	*
	Arlington (N. Devon)	51	29	44.7	31.1	37.7	-3.3	8	39	2	0.06	-0.72	*	*	*
	Cullompton	55	26	47.6	31.0	39.1	-5.5	16	41	3	0.12	-0.36	37.0	+7.5	44
	Falmouth	50	32	46.9	35.9	41.2	-3.7	14	23	3	0.13	-0.53	46.6	+14.1	55
	Plymouth	52	27	47.3	32.5	39.7	-5.3	15	36	2	0.06	-0.52	40.7	+8.9	48
9. IRELAND, N.	Prawle Point	51	28	46.7	34.1	40.2	-3.7	13	30	4	0.23	-0.21	*	*	*
	Malin Head	49	35	45.6	38.7	42.1	-0.9	15	9	2	0.12	?	*	*	*
	Londonderry	56	32	51.3	35.9	43.4	0.0	35	17	2	0.13	-0.54	*	*	*
	Edenfel (Omagh)	54	30	48.7	33.0	40.6	-0.7	19	34	0	—	-0.60	*	*	*
	Belmullet	52	30	49.0	37.6	43.1	-1.3	26	12	4	0.06	-0.77	*	*	*
	Markree Castle	54	26	50.0	32.3	40.9	-1.9	22	38	2	0.12	-0.48	49.3	+25.2	57
	Armagh	53	28	48.2	32.1	39.9	-2.1	17	37	2	0.08	-0.36	48.0	+24.2	56
	Donaghadee	53	33	47.9	36.0	41.8	-1.7	17	24	1	0.02	-0.50	*	*	*
	Edgeworthstown	53	?	49.3	?	?	?	?	?	0	—	-0.63	*	*	*
10. IRELAND, S.	Dublin	53	32	47.8	35.5	41.5	-2.9	16	26	3	0.13	-0.34	45.4	+16.4	53
	Parsonstown	55	28	49.0	30.6	39.5	-3.6	20	43	0	—	-0.55	56.4	+30.2	66
	Kilkenny	53	26	47.6	30.4	38.8	-5.2	16	43	1	0.02	-0.48	*	*	*
	Roche's Point	56	31	50.0	35.3	42.4	-3.0	31	19	0	—	-0.73	*	*	*
	Valencia	52	30	48.9	35.9	42.2	-4.5	27	17	0	—	-0.80	49.8	+18.8	59
CHANNEL ISLANDS	Killarney	55	23	49.9	29.5	39.4	-5.6	22	47	1	0.01	?	*	*	*
	Foynes	51	29	48.5	35.6	41.0	-1.8	18	26	0	—	?	*	*	*
	Scilly (St. Mary's)	52	35	48.6	39.4	43.9	-2.6	24	7	3	0.04	-0.48	40.9	?	48
	Jersey	52	32	46.0	37.6	41.7	-4.1	11	18	4	0.83	+0.26	35.6	-1.2	42

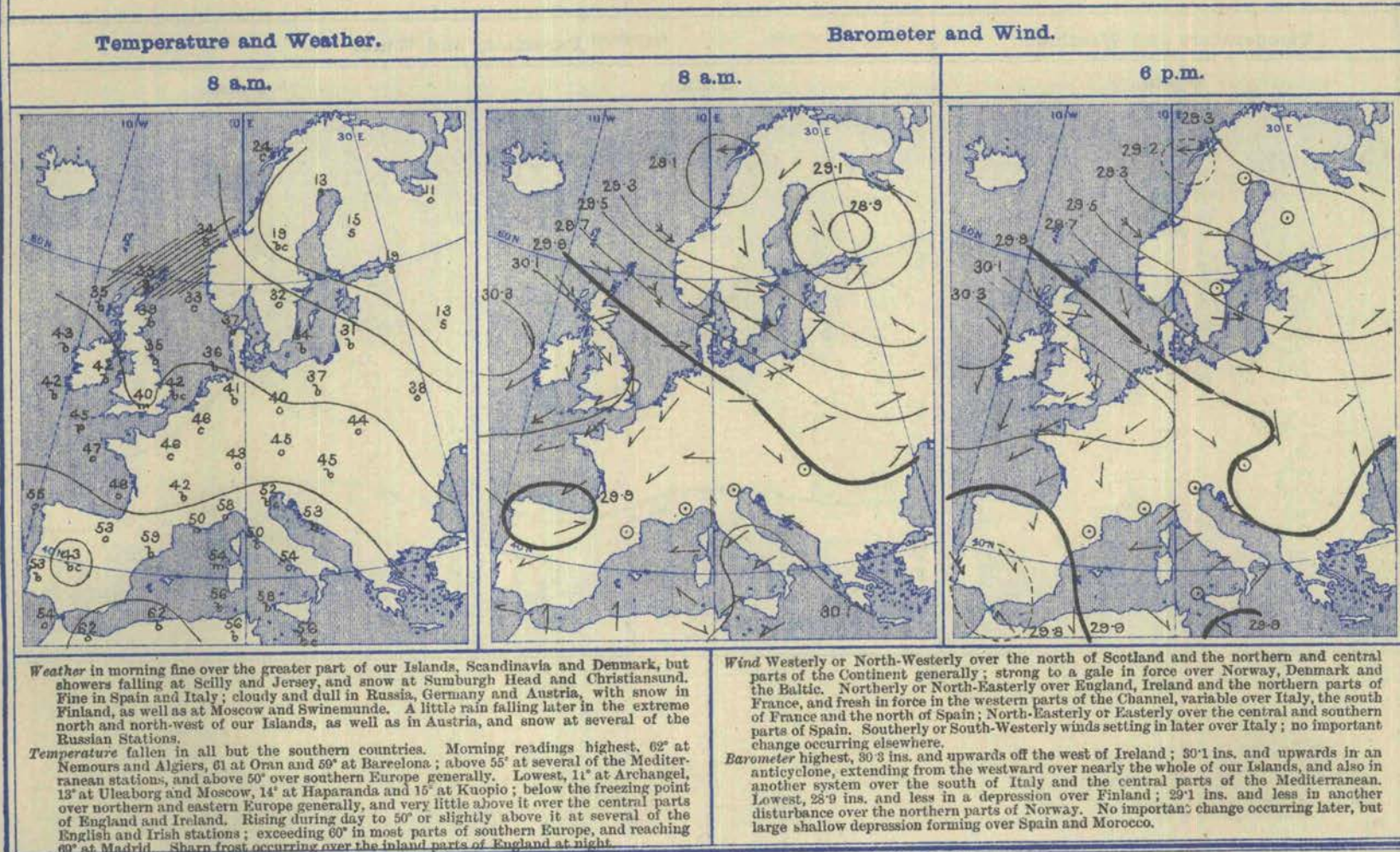
Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

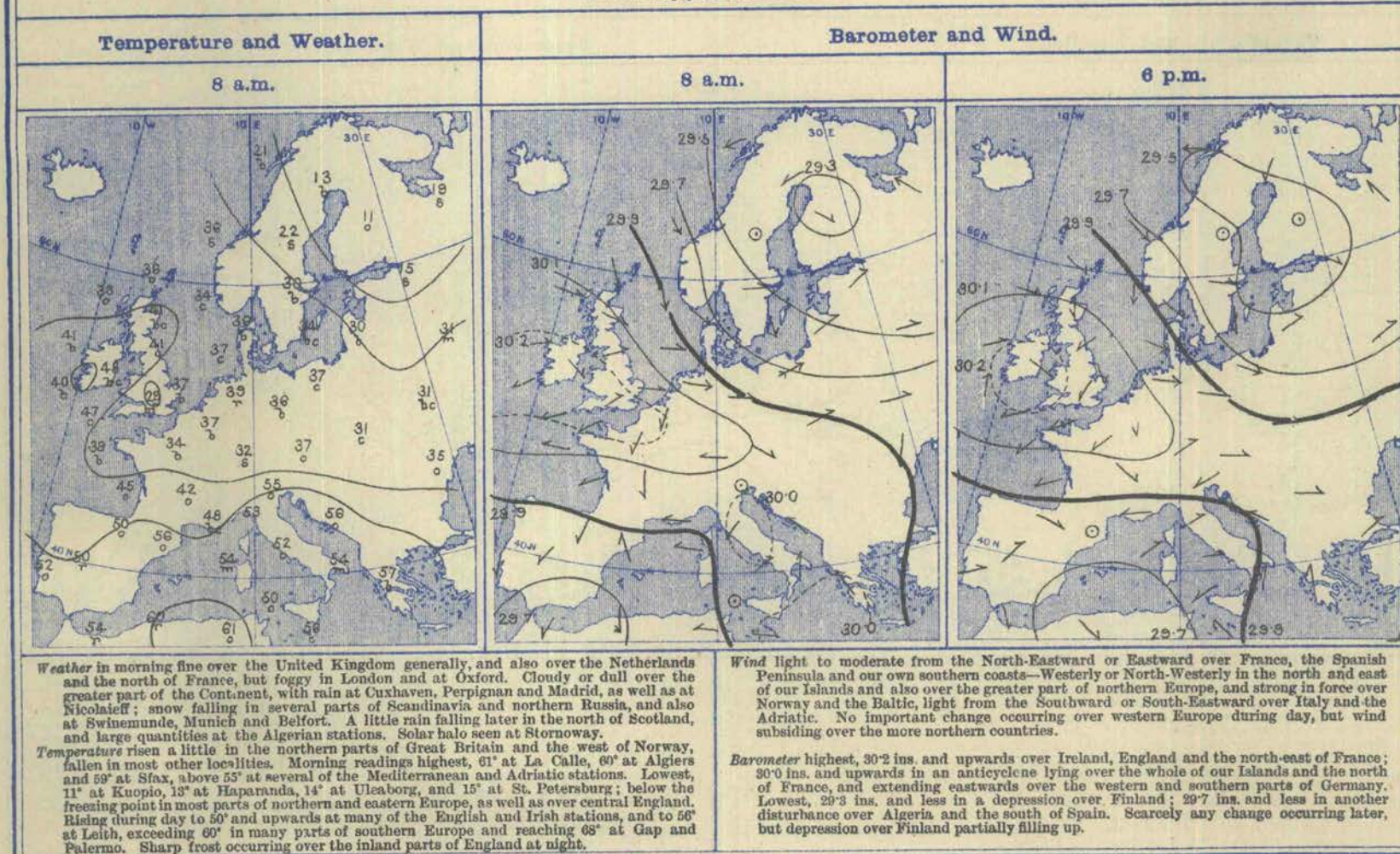
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

NOTE.—It will be seen that CRANLEY has been added to the list of stations in England S.

Sunday, 20th March.



Monday, 21st March.



Tuesday, 22nd March.

Temperature and Weather.

8 a.m.

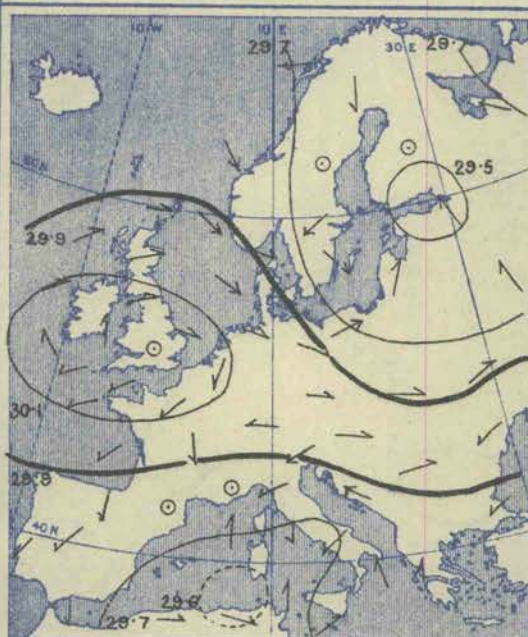


Weather in morning fine over western Europe generally, but foggy in several parts of England, as well as at Brussels and Lisbon. Fine in many parts of northern and central Europe, but rather changeable, with snow in a few places. Dull in Spain, Italy and the south of France, with rain at Rome. A little rain falling later over all the more northern parts of our Islands; solar halo seen at Liverpool.

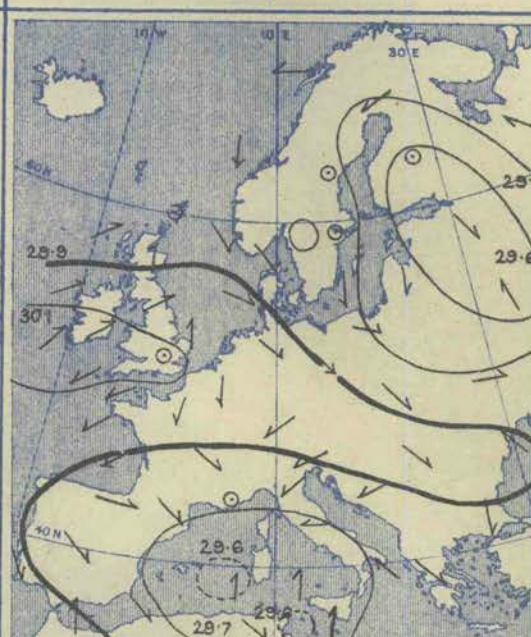
Temperature changed very irregularly. Morning readings highest, 60° at Malta, 59° at La Calle, and 57° at Barcelona, slightly above 55° at several of the Mediterranean and Adriatic stations, and above 50° over southern Europe generally. Lowest, 7° at Haparanda, 8° at Helsingfors, 11° at Hangö; below the freezing point in most parts of Russia and Scandinavia and also over central England. Rising during day to 50° and upwards in most parts of the United Kingdom and to 56° at Cambridge; exceeding 60° over southern Europe generally and reaching 77° at Palermo. Frost occurring over the south of England at night.

Barometer and Wind.

8 a.m.



6 p.m.



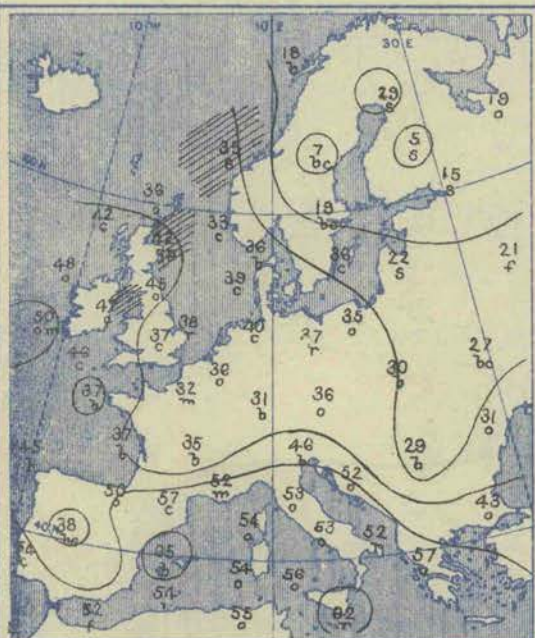
Wind light from the Westward or South-Westward over all the more northern parts of our Islands, strong from the North-Westward on the eastern shores of the North Sea, moderate to fresh from the same quarter or from West over Germany and Austria; calm or light from the Southward over Russia. Light to moderate from the North-Eastward over the English Channel, France, Italy and the Spanish Peninsula; fresh from the Eastward or South-Eastward over the Baltic. No important change occurring during day, but wind shifting to the Northward on our northern coasts at night, and blowing strongly in places.

Barometer highest, 30.1 ins. at Haparanda, 30.0 ins. and upwards in an anticyclone embracing nearly the whole of our Islands, the Netherlands, Germany, and all the more northern parts of France. Lowest, 29.5 ins. and less in a shallow depression over the Gulf of Finland; 29.6 ins. and less in another disturbance off the coast of Tunis. New depression appearing later off the north of Scotland and advancing quickly southwards.

Wednesday, 23rd March.

Temperature and Weather.

8 a.m.

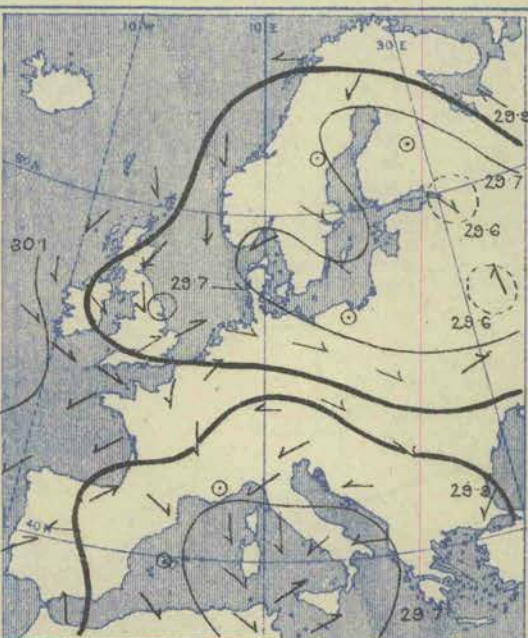


Weather in morning cloudy or dull in all but the extreme southern parts of our Islands, with rain in the north and east of England, and passing showers in several other localities. Fine in Scandinavia and also over France, Spain, western Germany, northern Italy and the south of Russia; rain falling in several parts of north Germany, and snow over Finland and the Baltic provinces. Rain or snow occurring later over nearly the whole of Great Britain and the neighbouring parts of the Continent.

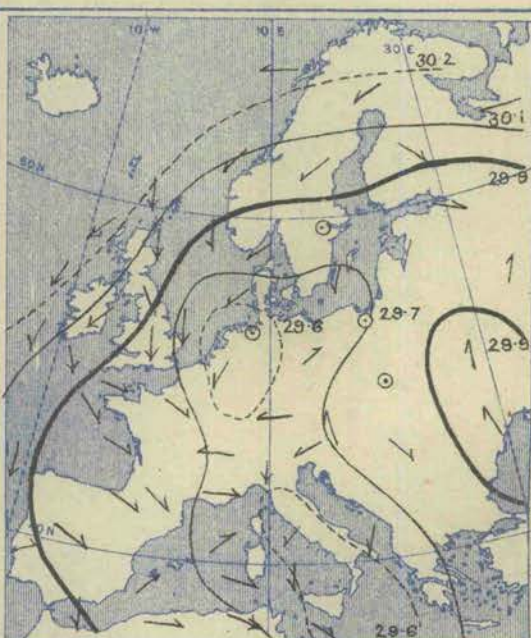
Temperature risen over England and Ireland, but fallen in most other countries. Morning readings highest, 65° at Palma, 62° at Malta, and 57° at Barcelona and Patras; above 50° at the Mediterranean and Adriatic stations generally, as well as at Valencia (Ireland). Lowest, 5° at Hangö, 5° at Kuopio and Helsingfors, and 7° at Haparanda; below the freezing point over northern and eastern Europe generally, and just touching it in some parts of central France. Rising during day to 50° and upwards at most of the English and Irish stations, and to 56° at Haparanda; exceeding 60° in Spain, Italy, and the south of France, and reaching 68° at Cape Béarn and Croisette.

Barometer and Wind.

8 a.m.



6 p.m.



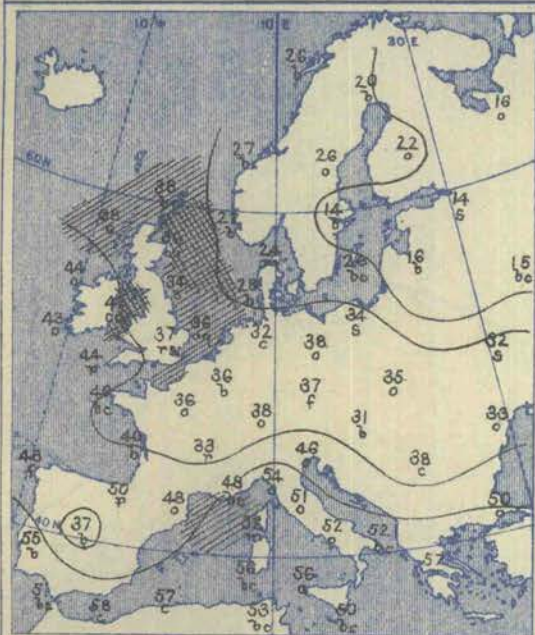
Wind moderate to strong from the Northward or North-Eastward over Scandinavia, the northern parts of Great Britain, and from the North-Westward on our western coasts; light to moderate from the Westward or South-Westward over the south-east of England, the Netherlands and Germany. North-Easterly over the greater part of France, Spain and Italy; Easterly over the Adriatic; North-Westerly in Algeria. Subsequently veering to the Northward, the south of our Islands and increasing to a moderate or fresh gale in the east and south-east of England.

Barometer highest, 30.1 ins. and upwards in an area lying off the south-west of Ireland. Lowest, 29.6 ins. and less in a depression over Russia; 29.7 ins. and less in a well-marked disturbance, having its centre off the north-east of England, and also in a large shallow area over Italy and the central parts of the Mediterranean. Depression off our north-east coasts subsequently moving south-eastward to western Germany, and barometer rising in most parts of the United Kingdom.

Thursday, 24th March.

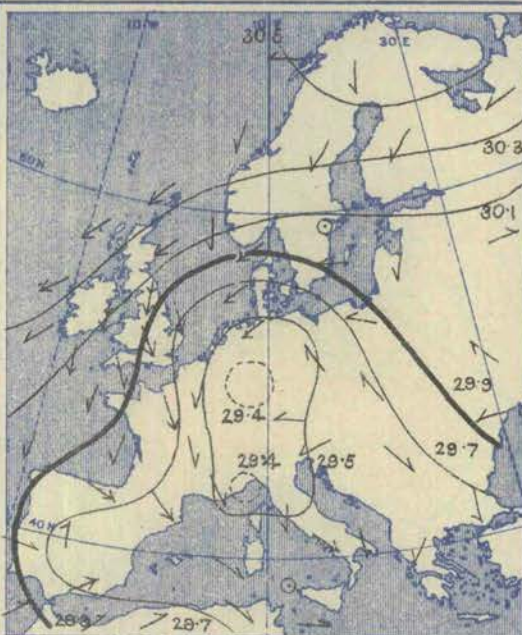
Temperature and Weather.

8 a.m.

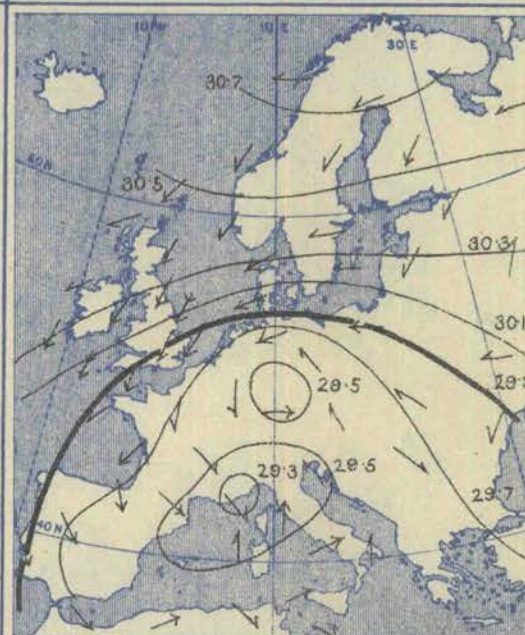


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very unsettled over England, with snow squalls in nearly all districts. Rain or snow falling also in many parts of France and Germany, cloudy over Italy and Austria. Fine at most of the Irish and Scotch stations, as well as in Scandinavia; snow falling in many parts of Russia. Fine over the Spanish Peninsula. Snow, sleet or hail falling during day in nearly all parts of Great Britain, as well as over the western and central parts of the Continent. Thunderstorm occurring at Brest.

Temperature fallen in most of the western and northern countries, but changed very irregularly elsewhere. Morning readings, highest, 58° at Malta and Oran, and 57° at Palma and Algiers; above 50° at most of the Mediterranean and Spanish coast stations. Lowest, 7° at Hangö, 13° at Helsingfors, and 14° at St. Petersburg and Stockholm; below the freezing point over northern and eastern Europe generally, and very little above it over the eastern and central parts of England and France. Daily maxima below 45° in most parts of Great Britain, but thermometer touching 52° at Roches Point, reaching 50° or more also in the west of France, and exceeding 60° in most parts of southern Europe.

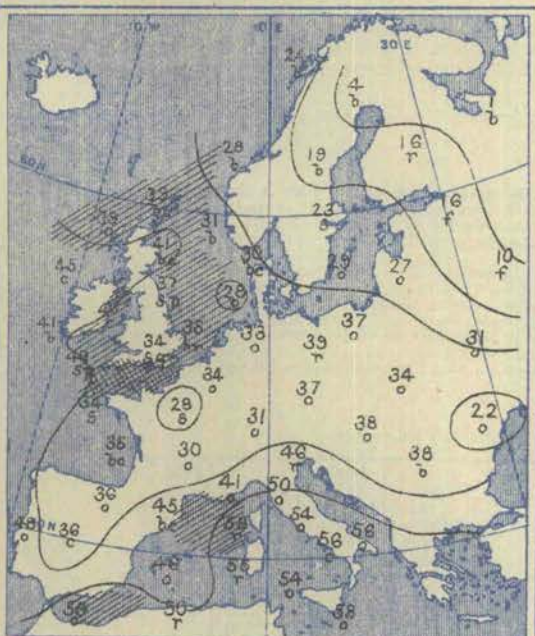
Wind light from the South-Eastward over Austria and eastern Germany, strong to a gale from the Eastward or North-Eastward in Denmark, and moderate from the same quarters in Scandinavia; Northerly over the greater part of our Islands and France, with a gale on the east coast of Great Britain and also over the Irish Sea. Westerly or North-Westerly in the south of France and the north of Spain; South-Westerly in the south of Spain; variable in Italy. Northerly gales setting in later over the Channel and south-east of England.

Barometer highest, 30.5 ins. and upwards over the extreme north of Scandinavia; 30.3 ins. and upwards on our own extreme western coasts. Lowest, 29.4 ins. and less in a well marked depression over western Germany, and also in a small system over the Riviera. German depression continuing to move south-eastwards during day; disturbance over Riviera becoming somewhat deeper.

Friday, 25th March.

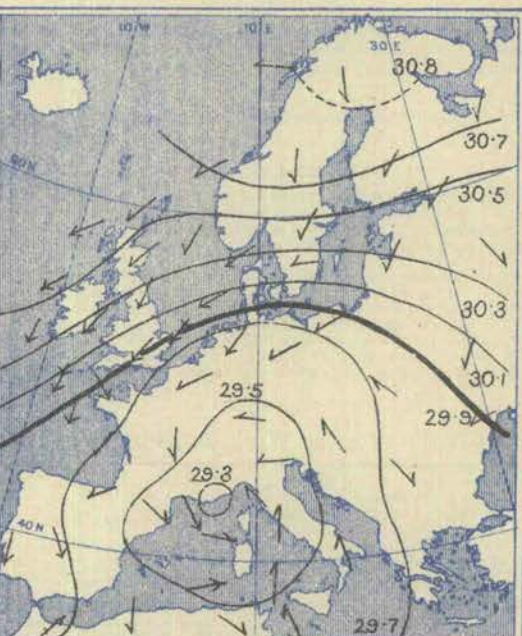
Temperature and Weather.

8 a.m.

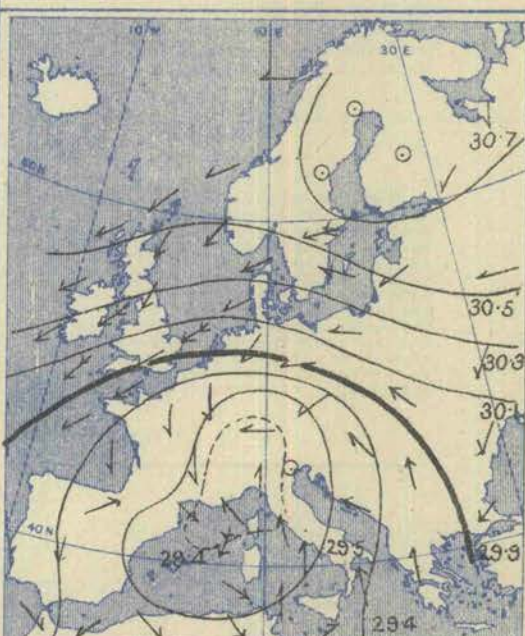


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning, fine in Ireland, Scotland and Scandinavia, but cloudy and dull in nearly all other parts of Europe; snow showers reported at the English and many of the French stations, and rain in some parts of Austria, as well as at Swinemunde, Berlin, Sauguinare, and Cagliari. Snow and hail showers falling later in the east of Scotland, but sky clearing at several stations in Spain and the south of France. Thunderstorm, with hail, occurring at Sauguinare.

Temperature fallen in England, Ireland, France and Spain, risen in Italy, changed rather irregularly elsewhere. Morning readings highest, 58° at Oran and Malta, and 56° at Naples and Brindisi; above 50° at west of the Italian and Mediterranean stations. Lowest, 1° at Archangel, 4° at Haparanda, 8° at Uleaborg, and 10° at Moscow; below the freezing point over northern and eastern Europe generally, as well as in central France, and very little above it in the central and southern parts of England. Remaining below 40° all day in many parts of England and France, but reaching 45° or more on our western coasts. Exceeding 55° in Spain and Austria, and exceeding 60° over the southern parts of Italy.

Wind North-Easterly over western and northern Europe generally and strong to a gale in force over the Irish Sea, England, and the neighbouring parts of the Continent. Northerly or North-Westerly over the Spanish Peninsula and the extreme south of France; Southerly in Italy; South-Easterly over Austria and Poland, subsequently increasing to a gale over Denmark and the south of Scandinavia; no important change occurring elsewhere.

Barometer highest, 30.4 ins. at Haparanda; 30.5 ins. and upwards in an anticyclone embracing the greater part of Scandinavia and northern Russia, and extending westwards over the extreme north and north-west of our Islands. Lowest, 29.3 ins. and less in a well-marked depression, with its centre near Nice. Depression partially filling up later, but secondary disturbance beginning to form over south Germany and the neighbouring parts of France.

Saturday, 26th March.

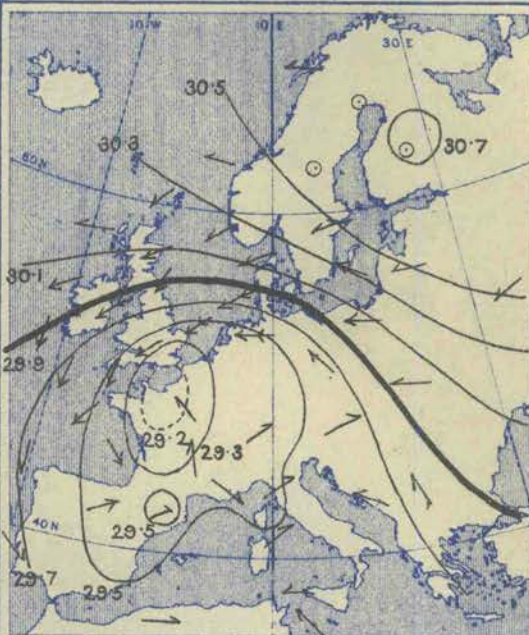
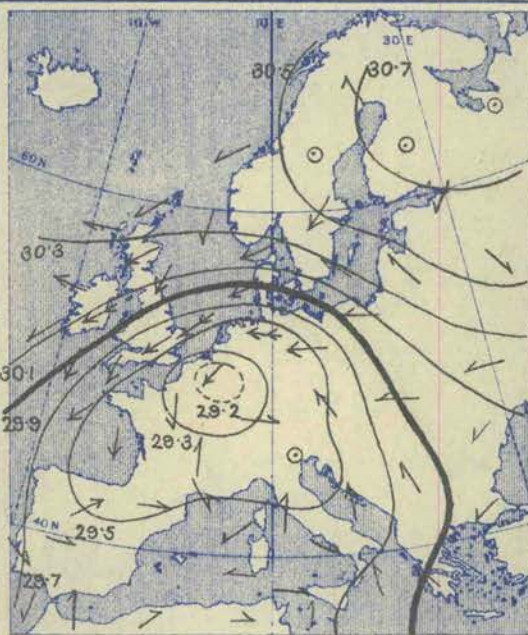
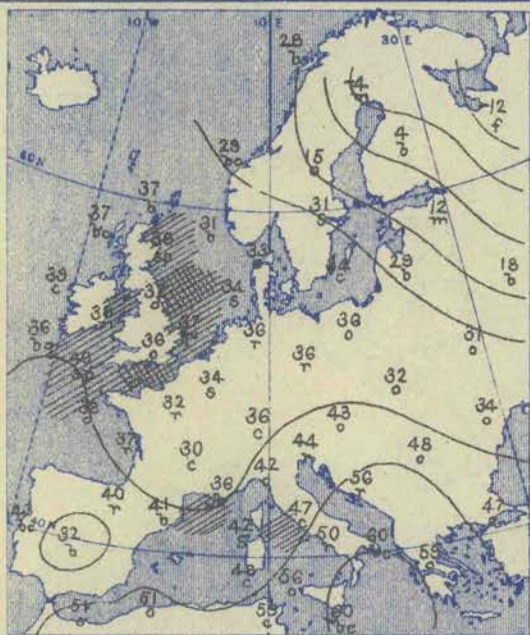
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine in Ireland, the west and north of Scotland, and the west of Norway, as well as over northern and central Russia, cloudy or dull elsewhere, with snow and hail showers in many parts of England, and the east of Scotland. Snow or rain falling also at many of the Continental stations. Rain or snow falling later over western, central, and southern Europe generally, heavily in many parts of France; thunderstorms occurring at Nice and Sanguinaire, and lightning seen at Perpignan.

Temperature fallen in the west and north of our Islands, as well as in Spain, Italy, and the northern parts of Sweden and Russia; risen in most other parts of Europe. Morning readings highest, 60° at Brindisi and Malta, 59° at Sfax, and 58° at Lesina and Palermo, above 50° in Algeria. Lowest, -12° Fahr. at Archangel, -4° at Haparanda, +4° at Kuopio, and 6° at Uleaborg, below the freezing point over northern and eastern Europe generally, as well as in central France. Daily maxima below 40° at several of the English stations, as well as in neighbouring parts of the Continent; thermometer exceeding 50° over southern Europe, and reaching 88° at Brindisi and Palermo, and 72° at Malta.

Wind Easterly or North-Easterly over the northern parts of our Islands and the Continent, with a gale in Denmark and north Germany. Strong to a gale from the Northward or North-Eastward over England, the Netherlands, and the north of France. Westerly over the Spanish Peninsula, and the extreme south of France; Southerly or South-Easterly over Italy and Austria. Gale partially subsiding later in the south of England, but wind increasing in the east of Scotland; no important change occurring elsewhere.

Barometer highest, 30.7 ins. and upwards over northern Russia, 30.3 ins. and upwards in an anticyclone embracing the greater part of northern Europe, and extending westwards to the extreme north of Scotland. Lowest, 29.2 ins. and less in a well-marked depression over Western Germany; gradients steep over our Islands, the North Sea, Denmark and Germany. Depression subsequently advancing westwards to the north-east of France; barometer falling in most parts of western Europe.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: — = blue sky; $\circ$ = detached clouds; — = overcast; — = misty (hazy); — = foggy; — = squally; — = rain; — = hail; — = snow; — = lightning; and — = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the early part of this week an anticyclone of moderate size and height spread from the Atlantic over our Islands, and the neighbouring parts of the Continent. The weather in these localities was therefore mostly fair, with Westerly breezes in the more northern districts, but with North-Easterly breezes in the south. Over northern and eastern Europe, however, the conditions were affected by a large and complex depression, which travelled south-eastwards across Scandinavia and Russia, snow being reported in many places, while in the extreme south the weather was rendered somewhat unsettled by another complex disturbance, which extended northward over the Mediterranean from Algeria.

On the 23rd an important change took place in all the more western countries. During the night of the 22nd a well-marked depression advanced quickly from the north-westward across Scotland, and on the following day it continued to move in a south-easterly direction along the east coasts of England, and on to the Netherlands and Germany. In the rear of the disturbance the wind increased to a gale from the Northward and North-Eastward, first over Great Britain and the east of Ireland, and afterwards over the western and central parts of the Continent, with frequent falls of snow or sleet, the amount being heavy at several of the English and French stations. By the time the depression had reached central Europe a new disturbance had formed over Italy and the south of France, and as numerous secondary systems appeared over France, Germany, and the North Sea, the gale and snow squalls continued on our own and the neighbouring coasts until very nearly the close of the week. At some stations in the west and south of France thunder and lightning were experienced on the 24th and 25th, the phenomena being repeated in the south on the 26th, and extending on this occasion to Corsica.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 68.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	49.1	?	50	?	WESTBOURNE (Emsworth)	33.8*	+1.1	40*	0
STRATHPEFFER SPA	28.2	+1.8	33	+1	WATERGATE (Emsworth)	26.0	?	32	?
EDINBURGH	25.7	+3.1	30	+3	BRIGHTON	27.8	-2.7	33	-4
MORPETH	26.7	?	31	?	EASTBOURNE	32.2	-0.5	38	-1
NEWCASTLE-ON-TYNE	21.8	?	25	?	VENTNOR HOSPITAL	37.3	?	44	?
OSWALDKIRK (Yorkshire)	32.2	+5.5	37	+5	SOUTHPORT	47.9	?	56	?
SHEFFIELD	26.0	?	31	?	COLWYN BAY	44.0	?	52	?
WORKSOP	23.4	-0.6	28	-1	TENBY	49.7*	+15.2	58*	+17
THURCASTON (Leicestershire)	30.4	+7.4	36	+8	NEWQUAY	42.8	+10.1	50	+11
HOLLESLEY BAY	31.6	?	37	?	TORQUAY	42.3*	+9.8	50*	+10
PLUMSTEAD COMMON	12.7	?	15	?	GUERNSEY	34.3*	-0.7	41*	-2
MARGATE	32.2	+3.7	38	+4					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

VOL. XV. No. 13.]
Third Series.

WEEK ENDING SATURDAY, APRIL 2ND, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 74.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	58	28	45.6	39.7	39.5	1 below	Day-deg. 10	Day-deg. - 3	Day-deg. 31	Day-deg. - 2	Day-deg. 141	Day-deg. + 42	Day-deg. 332	Day-deg. - 106
	1. SCOTLAND, EAST	62	23	45.7	31.6	38.5	3 below	10	- 8	38	+ 5	188	+ 55	351	- 180
	2. ENGLAND, N.E.	54	25	45.0	32.1	38.4	4 below	8	- 11	36	+ 8	226	+ 91	301	- 161
	3. ENGLAND, EAST	55	26	47.5	31.2	39.1	4 below	15	- 8	40	+ 10	199	+ 31	365	- 157
	4. MIDLAND COUNTIES	56	26	47.7	31.9	39.6	4 below	16	- 12	38	+ 7	218	+ 35	348	- 172
Principal Wheat-producing Districts.	5. ENGLAND, SOUTH	59	28	47.6	34.8	41.0	3 below	16	- 10	28	+ 4	251	+ 52	218	- 199
	6. SCOTLAND, WEST	54	23	46.8	33.7	40.0	2 below	13	- 4	31	+ 6	228*	+ 84	226	- 155
	7. ENGLAND, N.W.	52	29	46.2	34.5	40.2	4 below	12	- 7	28	+ 4	219	+ 77	203	- 185
	8. ENGLAND, S.W.	56	25	48.6	34.7	41.2	3 below	17	- 8	28	+ 9	291	+ 65	199	- 117
	9. IRELAND, NORTH	55	25	47.4	34.8	40.9	3 below	15	- 8	28	+ 6	275	+ 81	210	- 121
Principal Grazing, &c., Districts.	10. IRELAND, SOUTH	57	25	48.3	34.3	41.1	4 below	18	- 11	30	+ 13	365	+ 84	159	- 95
	-CHANNEL ISLANDS-	54	33	48.9	39.7	44.2	3 below	25	- 5	6	- 1	409	+ 110	55	- 84

DISTRICTS. (See p. 74.)		Rainfall.								Bright Sunshine.								
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 6	10ths of in. 1 less	77	+ 12	18.9	+ 5.2	33	+ 8	37	+ 8	193	+ 21	22	+ 2		
	1. SCOTLAND, EAST	4	6	1 more	52	+ 3	4.9	- 2.5	23	- 4	25	- 6	245	+ 36	29	+ 4		
	2. ENGLAND, N.E.	4	5	0 (average)	44	- 3	3.5	- 2.0	21	- 6	24	- 9	247	+ 44	29	+ 5		
	3. ENGLAND, EAST	3	3	2 less	41	- 5	3.5	- 1.8	31	- 2	34	- 4	241	- 1	27	0		
	4. MIDLAND COUNTIES	3	1	3 less	39	- 5	2.8	- 3.4	21	- 5	23	- 6	216	+ 2	25	0		
Principal Wheat-producing Districts.	5. ENGLAND, SOUTH	2	1	4 less	37	- 6	3.5	- 3.3	28	- 1	32	- 3	227	- 3	27	0		
	6. SCOTLAND, WEST	5	4	4 less	62	+ 8	10.5*	- 2.8	26	- 1	29	- 3	232	+ 43	28	+ 5		
	7. ENGLAND, N.W.	2	2	4 less	50	+ 1	7.6	- 0.1	23	- 1	26	- 1	261	+ 75	32	+ 9		
	8. ENGLAND, S.W.	3	3	3 less	48	- 2	6.0	- 3.7	29	- 6	33	- 7	277	+ 11	31	+ 1		
	9. IRELAND, NORTH	4	2	4 less	61	+ 4	7.7	- 1.3	23	- 3	26	- 4	228	+ 24	26	+ 3		
Principal Grazing, &c., Districts.	10. IRELAND, SOUTH	2	2	5 less	44	- 8	6.6	- 3.4	28	- 3	31	- 6	255	+ 9	29	+ 1		
	- CHANNEL ISLANDS-	2	1	5 less	56	+ 1	4.4	- 4.0	33	- 4	38	- 6	292	- 10	32	- 1		

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather continued cold and showery over the more eastern and southern districts during the earlier days of the week, but subsequently became fine and somewhat milder. In the north and north-west, however, where at first it was mostly fine and dry, the conditions became unsettled, and rain occurred almost daily, until the end of the period.

Temperature was again below the mean, the deficit ranging from 1° in Scotland N. to 4° in Ireland S. and nearly all the English districts. The highest of the maxima were registered, as a rule, on April 1st, and ranged from 62° in Scotland E. and 59° in England S. to 52° in England N.W. The lowest of the minima were recorded between March 30th and April 1st; they ranged from 23° in Scotland E. and W., and from 25° in England N.E. and in several of the western districts, to 29° in England N.W. and to 33° in the Channel Islands.

Rainfall was slightly more than the mean in Scotland E., and just equal to it in England N.E., but in all other parts of the Kingdom it was less than the normal, the fall being especially slight over southern and central England and in the Channel Islands.

Bright Sunshine was deficient in all districts excepting Scotland N. The percentage of the

possible duration ranged from 33 in the Channel Islands and 37 in Scotland N. to 26 in Ireland N. and England N.W. to 25 in Scotland E. and to 23 in the Midland counties.

Barometer and Wind.—At the commencement of the week the barometer continued highest in the north, and lowest in the south, the resulting North-Easterly winds being fresh or strong in the northern parts of the country, and moderate or light in the south. During Monday and Tuesday the barometer fell generally, and the presence of small shallow depressions in different parts of the Kingdom caused the gradients to become slight and irregular. By Wednesday the barometer was rising again, but the distribution of pressure during that and the following day continued rather complex. By Friday morning an anticyclone had spread over the western and southern parts of the Kingdom from the Atlantic, and during the remainder of the week a "col" stretched over the North Sea to the Continent, and while depressions and North-Westerly and Westerly winds appeared in the extreme north, North-Easterly and Northerly breezes prevailed in the south and south-east.

NOTE.—Two distinct shocks of earthquake were felt at Falmouth at 11.50 p.m. on April 1st.

II.—DATA from which the SUMMARY on page 73 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	46	31	44.0	33.7	38.7	- 1.0	6	29	6	0.88	+ 0.34	*	*	*	*
	Stornoway	46	30	44.9	33.1	38.8	- 2.1	8	32	5	0.74	- 0.01	35.5	+ 9.4	39	+ 8
	Wick	48	30	46.0	34.9	40.3	- 0.5	11	27	6	0.23	- 0.16	*	*	*	*
	Laing	53	28	48.1	32.1	39.9	+ 0.1	17	38	6	0.58	- 0.07	*	*	*	*
	Glencarron	47	29	44.0	32.3	38.0	- 1.9	6	34	6	0.85	- 0.37	*	*	*	*
	Fort Augustus	50	29	46.2	35.0	40.4	- 0.6	12	26	6	0.56	+ 0.06	28.7	+ 8.9	32	+10
	Fort William	50	30	46.7	34.9	40.6	- 1.2	13	27	6	0.43	- 0.52	37.8	+13.2	42	+13
1. SCOTLAND, E.	Nairn	51	27	45.9	31.7	38.6	- 2.8	11	37	6	0.72	+ 0.43	*	*	*	*
	Aberdeen	55	32	45.7	34.0	39.7	- 2.0	10	30	6	0.60	+ 0.10	22.6	- 7.4	25	-10
	Braemar	48	23	41.6	29.1	35.2	- 3.3	0	48	3	0.49	+ 0.01	26.0†	- 1.8†	29†	- 3†
	Ochertyre	62	26	49.1	31.6	40.1	- 1.5	20	40	4	0.26	- 0.39	*	*	*	*
	Leith	54	28	47.0	33.3	40.0	- 2.7	14	33	3	0.78	+ 0.40	*	*	*	*
	Marchmont	51	25	45.1	30.0	37.3	- 3.5	9	42	4	0.64	+ 0.06	21.5	- 4.0	24	- 6
2. ENGLAND, N.E.	Alnwick Castle	53	28	45.2	31.4	38.1	- 2.9	9	38	7	0.60	+ 0.05	*	*	*	*
	Durham	53	25	45.7	29.1	37.2	- 4.8	10	46	4	0.49	- 0.03	25.2	- 2.1	28	- 5
	Shields	53	32	45.9	33.6	39.6	- 2.3	11	31	2	0.30	- 0.13	*	*	*	*
	Scarborough	49	30	42.1	32.5	37.2	- 5.7	0	33	6	0.73	+ 0.26	18.1	?	20	?
	York	54	26	46.6	30.9	38.5	- 4.4	13	40	2	0.17	- 0.27	18.4	- 8.6	21	-10
	Spurn Head	48	34	44.6	35.3	39.8	- 2.3	7	24	4	0.45	+ 0.11	*	*	*	*
3. ENGLAND, E.	Hillington	53	27	48.5	31.4	39.7	- 4.1	18	40	5	0.29	- 0.11	31.3	+ 3.1	35	+ 1
	Yarmouth	47	29	43.3	32.7	37.8	- 4.3	4	32	2	0.23	- 0.22	*	*	*	*
	Geldeston	54	26	47.8	29.7	38.5	- 4.3	16	45	5	0.40	0.00	26.8	- 5.2	30	- 8
	Cambridge	55	28	50.4	30.9	40.4	- 3.4	24	43	2	0.17	- 0.20	29.9	- 1.4	34	- 2
	Rothamsted	52	26	47.7	31.3	39.3	- 3.6	16	40	3	0.17	- 0.28	25.1	- 5.0	28	- 7
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	27	48.0	32.7	40.1	- 3.2	17	35	4	0.24	- 0.19	*	*	*	*
	Loughborough	54	29	47.4	31.6	39.3	- 4.5	15	39	4	0.22	- 0.21	*	*	*	*
	Stamford (Duddington)	53	28	47.7	33.0	40.3	- 3.3	16	35	3	0.13	- 0.27	*	*	*	*
	Cheadle	51	31	45.4	32.6	38.8	- 3.5	10	34	4	0.23	- 0.32	*	*	*	*
	Shirley (near Solihull)	53	29	46.4	31.0	38.5	- 4.3	12	40	4	0.17	?	*	*	*	*
	Churchstoke	53	26	46.7	29.7	38.0	- 4.3	13	45	2	0.06	- 0.41	21.3	- 7.7	24	- 9
	Hereford	56	28	49.3	30.7	39.7	- 4.9	20	43	2	0.12	- 0.31	*	*	*	*
	Cirencester	54	28	48.9	32.6	40.5	- 2.1	19	36	1	0.02	- 0.48	28.4	- 0.7	32	- 2
	Oxford	56	29	49.3	32.9	40.9	- 3.0	20	36	2	0.11	- 0.30	28.0	- 1.3	31	- 4
5. ENGLAND, S.	London	55	28	49.0	34.1	41.3	- 3.5	20	31	2	0.08	- 0.32	20.0†	- 3.0†	22†	- 5†
	North Foreland	50	34	44.6	36.0	40.2	- 2.7	7	22	3	0.20	?	*	*	*	*
	Cranley	52	28	47.3	33.0	39.9	- 4.4	15	33	2	0.09	?	*	*	*	*
	Dungeness	49	30	47.0	35.4	41.0	- 2.6	14	25	1	0.07	- 0.43	*	*	*	*
	Hastings (St. Leonards)	52	34	47.3	35.3	41.1	- 3.1	15	26	1	0.08	- 0.44	36.5	+ 1.5	41	+ 1
	Southampton	59	30	50.2	34.6	42.2	- 3.0	32	21	2	0.06	- 0.42	19.1	-14.4	21	-18
	Hurst Castle	56	34	48.6	36.3	42.3	- 2.1	26	16	1	0.05	- 0.42	*	*	*	*
	Shaftesbury	53	31	46.5	33.8	40.0	- 2.8	13	31	4	0.43	- 0.05	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	49	31	47.5	34.7	40.9	- 2.4	15	28	6	0.38	- 0.32	*	*	*	*
	Glasgow	52	32	45.2	35.2	40.1	- 1.8	9	25	5	0.51	- 0.06	21.7	- 1.3	24	- 1
	Ardrossan	54	32	47.1	35.7	41.2	- 1.7	14	24	3	0.39	- 0.19	*	*	*	*
	Glenlee	51	23	46.5	29.6	37.8	- 3.8	13	45	5	0.31	- 0.56	*	*	*	*
	Gilcrux (Cumberland)	50	28	46.2	32.3	39.0	- 2.8	12	35	7	0.34	?	24.1	?	27	?
	Douglas (Isle of Man)	52	30	48.0	34.8	41.2	- 1.8	17	28	5	0.27	- 0.41	32.3	- 1.2	36	- 4
7. ENGLAND, N.W.	Stonyhurst	49	29	44.3	32.6	38.3	- 4.5	6	33	1	0.01	- 0.71	20.8	- 5.7	23	- 8
	Blackpool	52	29	47.8	33.0	40.2	- 2.9	16	34	2	0.13	0.41	26.6	+ 1.1	30	+ 1
	Manchester (Prestwich)	50	29	44.8	32.3	38.4	- 4.9	8	35	3	0.73	+ 0.17	13.6	?	15	?
	Liverpool Obsy. (Bidston)	48	34	46.0	36.4	41.1	- 2.8	11	22	2	0.11	- 0.35	*	*	*	*
	Llandudno	52	33	47.2	35.5	41.2	- 3.8	15	25	2	0.10	- 0.40	29.6	+ 3.5	33	+ 3
	Holyhead	52	35	46.9	37.0	41.8	- 2.9	14	20	3	0.09	- 0.41	*	*	*	*
8. ENGLAND, S.W.	Llandovery	55	25	49.1	29.6	39.1	- 5.2	20	47	2	0.24	- 0.51	*	*	*	*
	Pembroke	51	34	46.1	36.7	41.3	- 3.5	11	21	2	0.06	- 0.46	27.9	- 6.8	31	- 9
	Clifton	54	32	48.6	34.8	41.5	- 2.8	18	28	2	0.06	- 0.51	*	*	*	*
	Arlington (N. Devon)	51	30	47.4	33.9	40.5	- 1.2	15	31	1	0.10	- 0.67	*	*	*	*
	Cullompton	56	27	49.4	32.0	40.4	- 5.1	21	38	2	0.44	- 0.04	20.2	-11.3	23	-12
	Falmouth	52	35	48.0	38.1	42.9	- 2.6	23	11	3	0.70	+ 0.07	37.5	+ 2.5	42	+ 1
9. IRELAND, N.	Plymouth	54	31	48.6	36.2	42.2	- 4.0	26	16	3	0.19	- 0.39	34.2	+ 0.2	38	0
	Prawle Point	54	33	47.4	36.6	41.8	- 3.1	15	21	5	0.31	- 0.16	*	*	*	*
	Malin Head	48	36	45.1	37.9	41.4	- 2.3	9	16	6	0.50	?	*	*	*	*
	Londonderry	55	31	48.6	36.1	42.2	- 2.3	26	17	6	0.57	- 0.10	*	*	*	*
	Edenfel (Omagh)	54	26	46.9	33.3	39.9	- 2.3	14	32	4	0.21	- 0.38	*	*	*	*
	Belmullet	51	35	47.9	37.3	42.4	- 2.7	23	13	7	0.22	- 0.56	*	*	*	*
10. IRELAND, S.	Markree Castle	52	25	47.4	32.7	39.8	- 4.1	15	35	3	0.10	- 0.48	27.1	+ 0.8	30	0
	Armagh	55	27	48.0	32.1	39.8	- 3.2	17	37	5	0.15	- 0.30	18.5	- 7.4	21	- 8
	Donaghadee	55	29	48.0	34.1	40.8	- 3.6	17	30	4	0.12	- 0.41	*	*	*	*
	Edgeworthstown	54	?	47.1	?	?	?	?	?	0	—	- 0.63	*	*	*	*
	Dublin	54	34	47.8	35.8	41.6	- 3.8	16	24	5	0.53	+ 0.05	24.3	- 7.0	27	-10
	Parsonstown	55	28	48.1	31.9	39.8	- 4.2	17	38	3	0.11	- 0.44	22.8	- 6.0	26	- 8
CHANNEL ISLANDS	Kilkenny	53	28	48.1	34.0	40.8	- 4.0	17	31	0	—	- 0.53	*	*	*	*
	Roche's Point	52	34	48.6	36.6	42.4	- 3.9	25	15	1	0.28	- 0.44	*	*	*	*
	Valencia	52	30	48.4	34.6	41.3	- 6.1	18	29	3	0.06	- 0.73	36.2	+ 2.7	41	+ 2
	Killarney	57	25	48.9	31.3	39.8	- 5.8	19	40	2	0.08	?	*	*	*	*
	Foynes	52	32	48.4	35.9	42.0	- 2.5	18	17	1	0.05	?	*	*	*	*
	Scilly (St. Mary's)	52	37	48.7	40.0	44.2	- 2.9	24	6	3	0.20	- 0.34	30.1	?	34	?
	Jersey	54	33	49.1	39.4	44.1	- 2.7	26	7	1	0.02	- 0.56	38.9	- 0.1	44	- 2

Stations marked $\mathcal{H}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

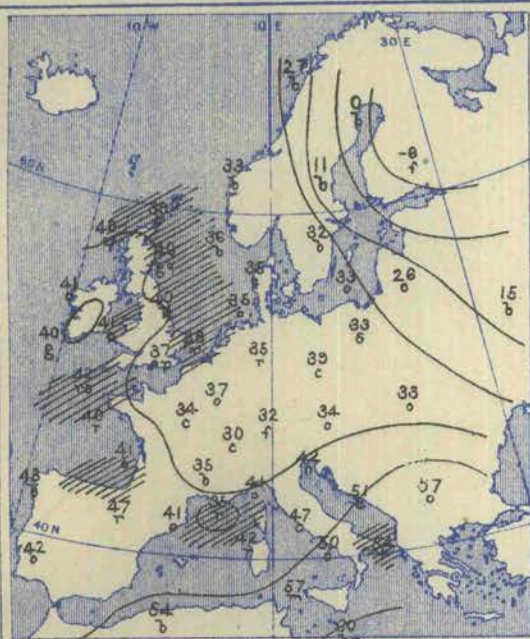
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 27th March.

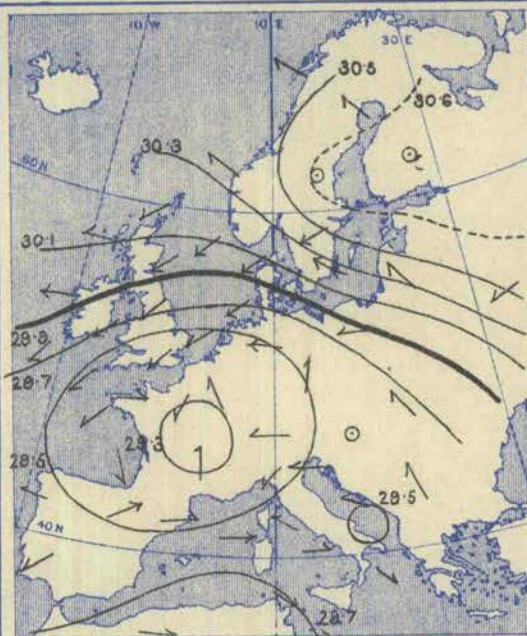
Temperature and Weather.

8 a.m.

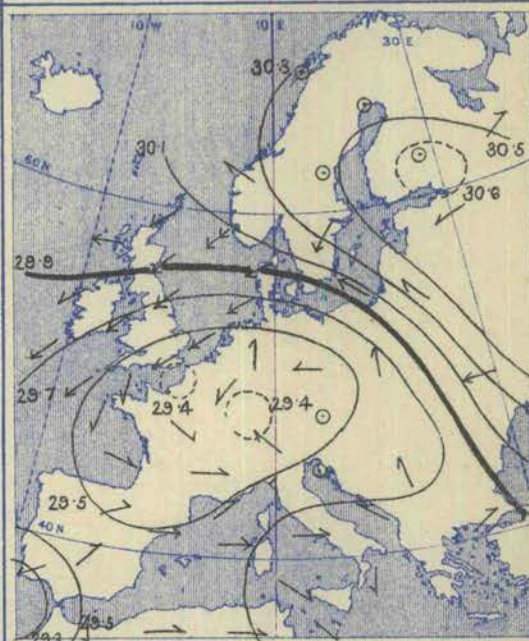


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Scandinavia and the northern half of Russia, and fair over the greater part of Scotland; still in an unsettled condition elsewhere, with showers of cold rain and sleet in several parts of the United Kingdom and France, and of rain in several parts of the Mediterranean; fine at Algiers and Malta. Further falls occurring later over Great Britain and some parts of France, and large quantities at many of the stations over Austria and the north of Italy, but with a general tendency to improve somewhat.

Temperature still very low generally. Morning readings highest, 60° at Malta, 54° at Algiers, 47° at Biarritz, 42° at Scilly, and 41° to 40° on our northern coasts. Lowest, -6° Fahr. at Kuopio, 0° (zero) at Haparanda, +11° at Hernösand, 15° at Moscow, and below the freezing point over northern Europe generally; 37° to 40° over the greater part of England and Scotland, and 30° to 34° over the central parts of France. Not reaching 50° at any of our own stations later, but touching 52° at Berlin, 54° at Biarritz, 58° at Perpignan, 59° at Marseilles, 61° at Algiers, 62° at Tunis.

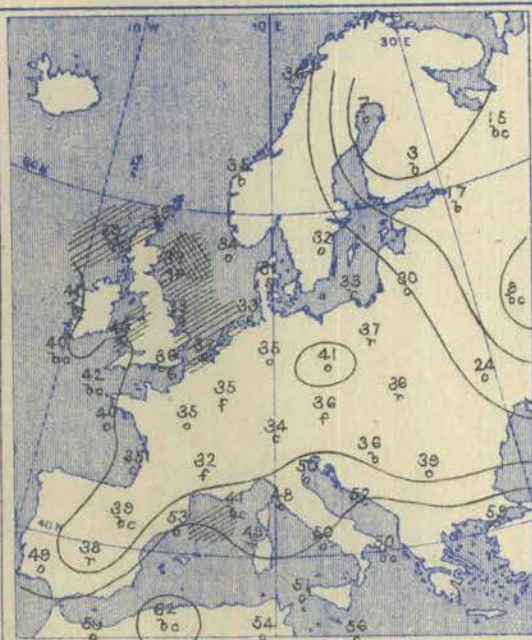
Wind Easterly and North-Easterly over all the northern countries—strong to a gale in force over the Baltic, strong and squally over the British Isles; nearly calm over central France and western Germany, Westerly and moderate at most of the Mediterranean stations. No decided change later.

Barometer highest, (1) 30·7 ins. to 30·0 ins. over the northern parts of Continental Europe, and 30·1 ins. to 30·0 ins. over the north of Scotland; (2) 29·8 ins. to 29·7 ins. over the southern side of the Mediterranean. Lowest, 29·3 ins. and less to 29·4 ins. in a large shallow depression covering France, the English Channel, and western Germany, and below 29·5 ins. in a secondary system over the Adriatic. Giving way later over Scandinavia and the north of our Islands, but rising over France. French depression beginning to fill up.

Monday, 28th March.

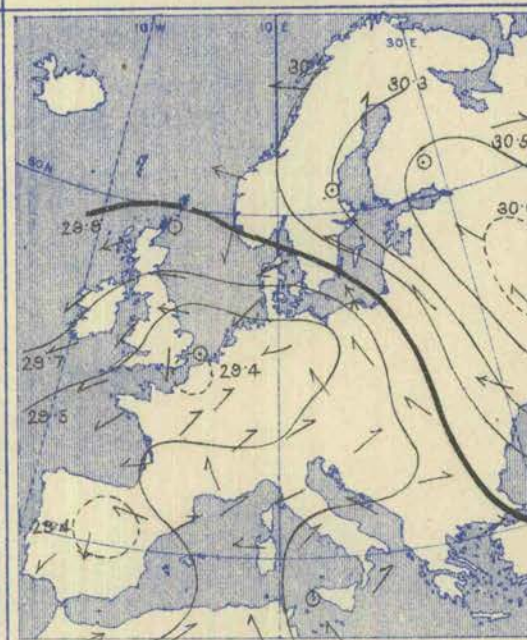
Temperature and Weather.

8 a.m.

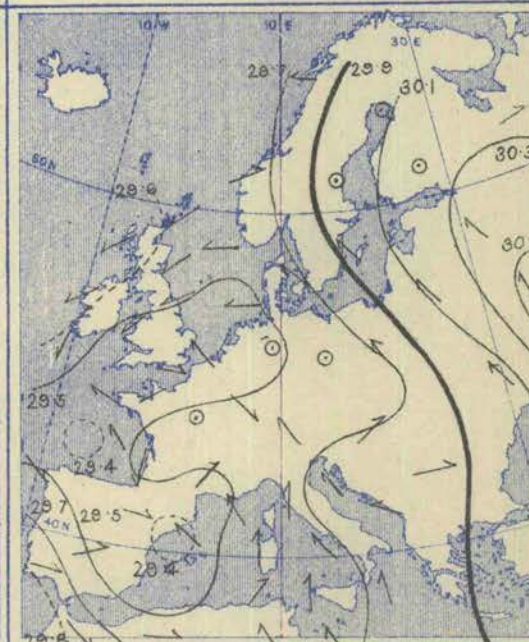


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over south-eastern Europe, as well as over the northern half of Russia, the Gulf of Bothnia and the western parts of Scotland and Ireland, dull, gloomy and very changeable elsewhere, with rain in the north of England, as well as over Hungary and eastern Prussia; sleet in the east of Scotland; snow on the eastern shores of the North Sea; fog in France and western Germany. Heavy rain (1·2 to 1·6 ins.) falling later over the south of France, rather less over Spain and the north of Italy, and some considerable quantities of rain and wet snow over the northern parts of Great Britain.

Temperature fallen in Scotland, risen a little over France, north Germany and over Lapland. Morning readings highest, 62° at Algiers, 56° at Malta, 52° at Oporto, 42° at Scilly, 41° at Belmullet; lower elsewhere. Lowest, 3° Fahr. at Kuopio, 7° at Haparanda and Hernösand, 8° at Moscow, and much below the freezing point over Russia generally; 35° to 37° over the central parts of England and Ireland, 29° to 35° over central France. Touching 46° at some of our western stations later, and rising to 50° at Berlin, Belfort and Lorient, 57° at Nice, 58° at Perpignan, 61° at Marseilles, 62° at Algiers, 63° at Tunis, 64° at Cagliari and 71° at Athens.

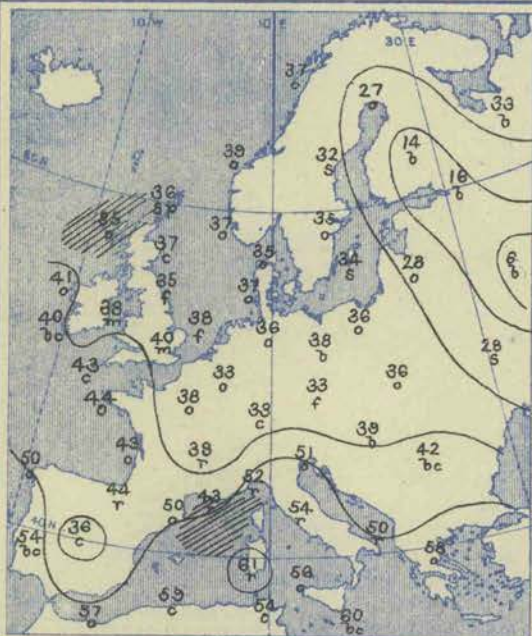
Wind Easterly (South-East to North-East) over the northern parts of Europe generally, and still blowing strongly at many of the stations; extremely light and variable over the more southern countries, except over some parts of Spain. The Easterly wind moderating later, but variable airs continuing over England, and the greater part of France and Germany.

Barometer highest, 30·6 ins. to 30·1 ins. over Russia, Finland and the northern part of Scandinavia, and exceeding 29·8 ins. (1) over Faro and Shetland Islands; (2) over the south of Italy, Malta and Greece. Lowest, below 29·4 ins. in a depression over Spain, and below 29·5 ins. in a very complex system covering the Bay of Biscay, England, the north of France, the Netherlands and north-west Germany. Rising a little later over France and the south and east of England; falling fast over Scotland and the north of Scandinavia.

Tuesday, 29th March.

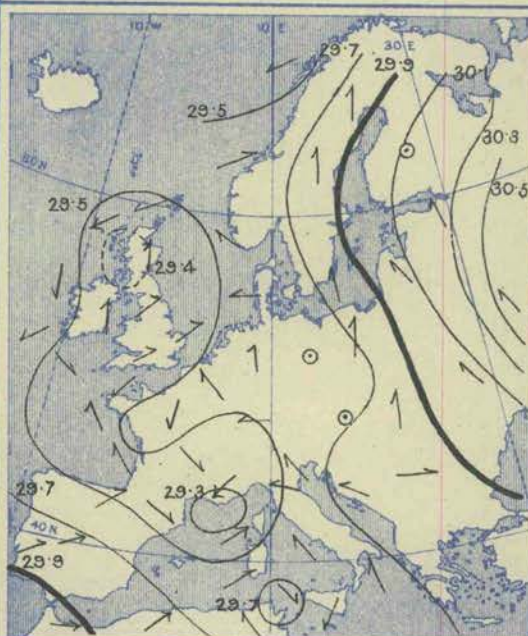
Temperature and Weather.

8 a.m.

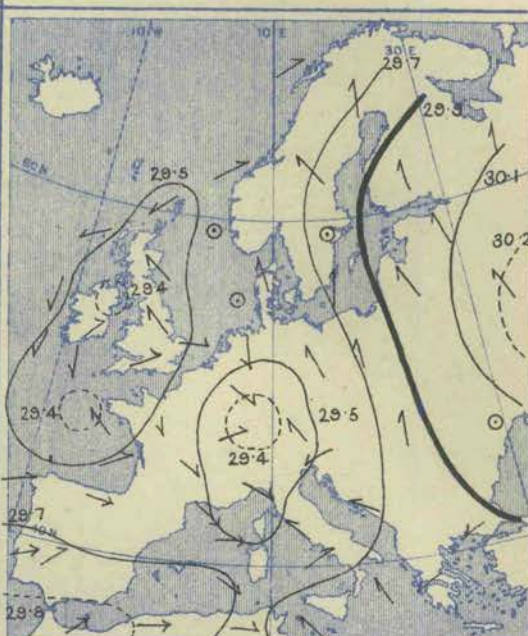


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over northern and central Russia, as well as over many parts of England and the south of Ireland, changeable and unsettled elsewhere, very rainy over the southern parts of France, and rather so over Scotland and the north of Ireland, with sleet or snow in places. Some showers later over the western and northern parts of our area and considerable falls of rain in the south of France, Portugal and the north of Italy and Sardinia, lightning seen at Prawle Point, and a brilliant solar halo at Jersey.

Temperature risen rapidly over Sweden, Lapland and the north of Russia, and slightly over England, France and Austria. Morning readings highest, 61° at Cagliari, 60° at Malta, and above 55° over the southern parts of the Mediterranean generally; 50° at Barcelona and Corunna, 48° at Scilly and Dungannon. Lowest, (1) 6° Fahr. at Moscow, 16° at St. Petersburg, (2) 33° at Belfort, Munich and Prague; (3) 34° to 37° over the midland and north-eastern counties of England, 35° at Parsonstown and Nairn. Rising later to between 45° and 50° over many parts of England and Ireland to 51° at Paris, 55° at Berlin, and to 61° at Rochefort. Not exceeding 50° at Nice all day, but touching 72° at Palermo and Tunis.

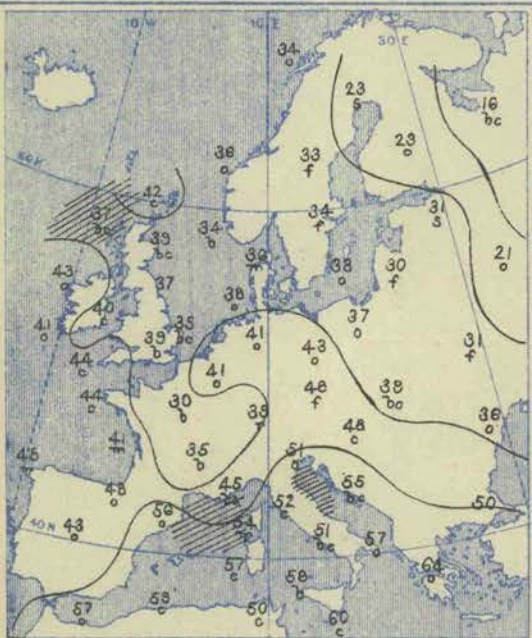
Wind exceedingly variable, separate cyclonic circulations being noticed in several parts of our Islands, and a very decided one, strong to a gale in force, over the Riviera and northern parts of the Mediterranean, while anticyclonic winds from South-East prevailed over Russia, Poland, the Baltic, and from South over Finland.

Barometer highest, (1) 30.4 ins. and more to 29.9 ins. over Russia and Finland and (2) above 29.9 ins. over Morocco and the south of Spain. Lowest, (1) below 29.3 ins. in a well-marked depression over the northern parts of the Mediterranean; (2) below 29.5 ins. over the Bay of Biscay, Brittany, almost the whole of the British Islands and below 29.4 ins. in Scotland; (3) below 29.5 ins. over Finmark and the north-west of Norway. Rising slightly and irregularly over our Islands and their neighbourhood later, falling over Portugal.

Wednesday, 30th March.

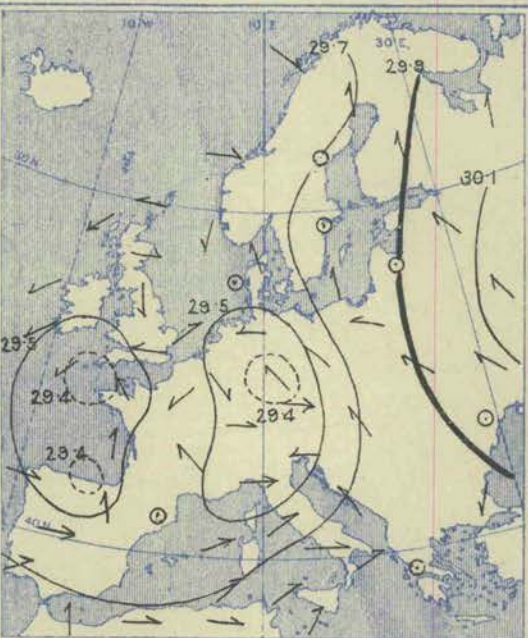
Temperature and Weather.

8 a.m.

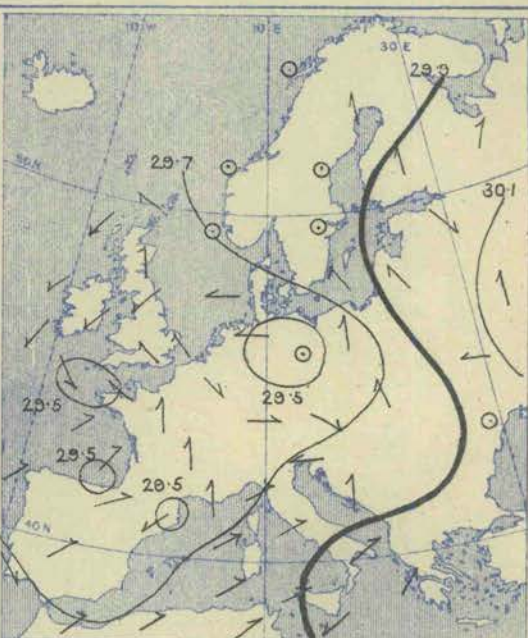


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair as a whole over the British Islands and France, but less fair in most other regions, with rain at several stations in south-western and southern Europe, snow in the Gulf of Finland and at Haparanda. Considerable rain later at Munich, as well as in the west and south of France and south-east of Ireland, slight falls in many other regions, with hail and wet snow in several places.

Temperature changing very fitfully over western Europe, risen fast over the central and eastern countries. Morning readings highest, 60° at Malta, 59° to 50° at most of the Mediterranean stations, 51° at Lisbon; 48° at Biarritz, 45° at Jersey, 44° at Scilly, and 48° to 43° in the south and west of Germany. Lowest, (1) 16° Fahr. at Archangel, 21° at Moscow, 23° at Kuopio and Haparanda, and below 32° over nearly the whole of Russia; (2) 30° at Paris; (3) 32° at Loughborough, 35° at Cambridge, 37° at York; (4) 34° at Parsonstown. Rising later to between 45° and 48° over Ireland, Scotland, and the north of England, to between 50° and 55° over our southern counties, to 59° at Paris and Nice, and to 61° at Perpignan, to 70° at Palermo, and 73° at La Calle.

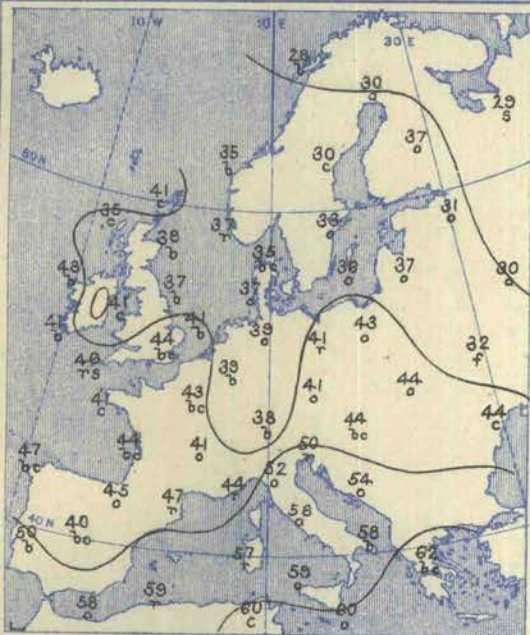
Wind (1) extremely light and variable—but mainly cyclonic—over the greater part of western Europe, the general direction being North-Easterly to Easterly at the northern stations, and Westerly in the south; (2) anticyclonic from South-East and South over Russia, Hungary, Poland, the Baltic, and Sweden. No decided change later.

Barometer highest, (1) 30.2 ins. to 29.8 ins. over Russia, and exceeding 29.8 ins. over south-eastern Europe; (2) 29.8 ins. and more over the Azores and Algeria. Lowest, 29.4 ins. and less in two complex cyclonic systems (1) over the west of France, the south-west of our Islands, and the Bay of Biscay, and (2) over Germany, Austria, Switzerland, and the north of Italy. Changes very slight later, but, as a whole, barometer rising over western Europe.

Thursday, 31st March.

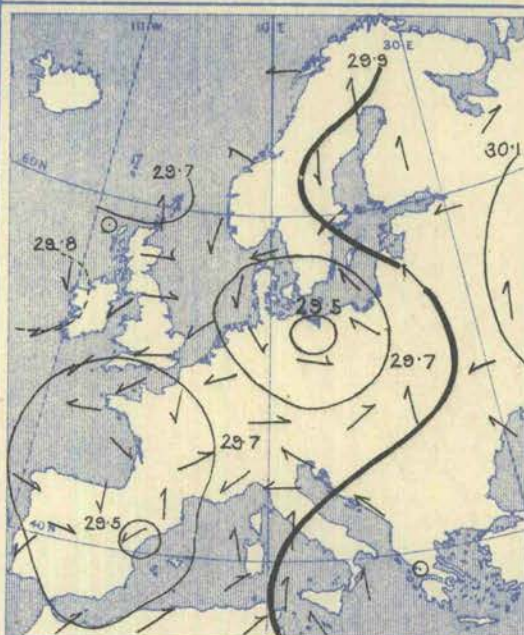
Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the British Islands generally and the north-west of Norway, also over Belgium and western Germany and the western and southern parts of the Spanish Peninsula, cloudy and unsettled elsewhere; rain falling in the south-west and south of France, Corsica, and Sardinia, as well as in some parts of Germany—sleet showers in the Scilly Islands, snow at Archangel. Very heavy rain falling later over the southern parts of France and the north of Italy, considerable quantities over some parts of Scandinavia and at Berlin, small quantities in Scotland, and locally in the south of Devonshire.

Temperature in morning highest, 62° at Athens, 60° at Malta and La Calle, and above 50° on the southern and eastern shores of the Mediterranean generally; 46° at Scilly, 44° in London, and 43° at Belmullet. Lowest, (1) 25° at Uleaborg, 27° at Helsingfors, 30° at Moscow, 37° at Riga; (2) 35° at Belfort, 39° at Wiesbaden and Brussels; (3) 29° at Parsonstown, 33° at Cambridge and York, 34° at Leith. Rising later to between 50° and 54° over several parts of England, and to 62° at Paris, but not exceeding 50° at either Nice or Perpignan; touching 72° at Palermo and La Calle.

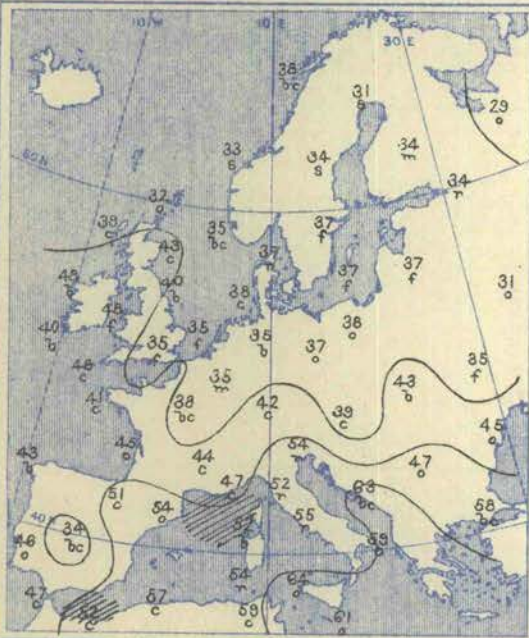
Wind light to moderate in force generally, but exceedingly variable in direction—mainly anticyclonic over Russia and also over the British Islands, but cyclonic over the Bay of Biscay, France and north Germany.

Barometer highest, (1) 30.2 ins. and more to 30.1 ins. over Russia; (2) 29.9 ins. over the Azores, and exceeding 29.8 ins. over the north-west of Ireland. Lowest, 29.5 ins. and less in a depression over north Germany, and ranging from 29.45 ins. to 29.6 ins. in a complex series of disturbances over the north-east of Spain, the Bay of Biscay and France. Rising over the British Islands all day, but falling over the northern parts of Scandinavia.

Friday, 1st April.

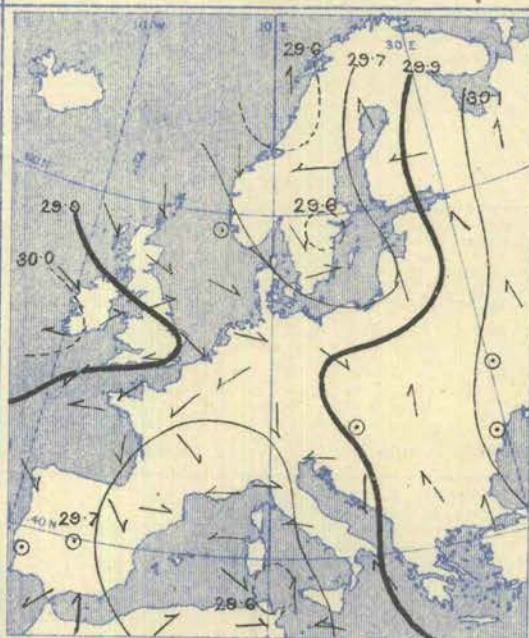
Temperature and Weather.

8 a.m.

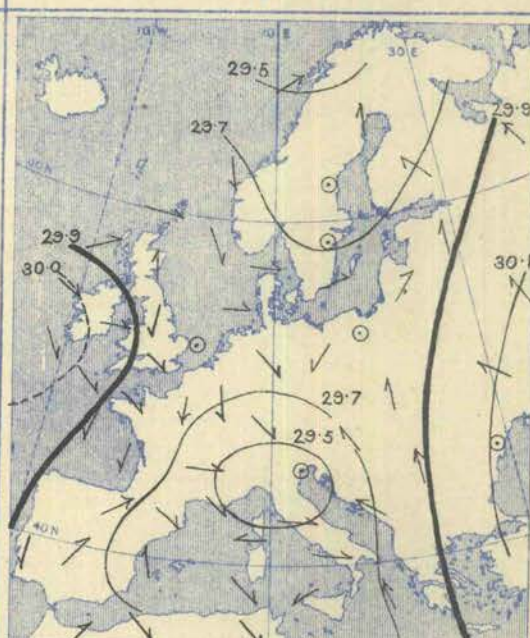


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair over the British Islands and the northern parts of France, as well as in many parts of Spain; unsettled elsewhere, with rain in many localities, snow over the northern parts of Scandinavia. Considerable rain later in the south of France, Austria and the north of Italy, smaller quantities in several parts of Germany and Scandinavia, and a little over Scotland and the north of Ireland; lightning seen at Lyons in the afternoon.

Temperature rising over Ireland and Scotland. Morning readings highest, (1) 64° at Palermo, 63° at Lesina, 61° at Malta; (2) 51° at Biarritz, 48° at Scilly and Belmullet, 47° at Ardrossan; (3) 47° at Hermantstadt, 44° at Buda Peth and Cracow, 41° at Warsaw. Lowest, (1) 29° at Archangel, 31° at Moscow and Haparanda, 33° at Kharkov; (2) 30° at Loughborough and Cambridge, 31° at Oxford, 33° at York; 35° at Brussels, 36° at Belfort, 38° at Paris. Rising later to between 50° and 56° over Ireland and England, to 56° at Paris, 62° at Lyons, 68° at Brindisi and 77° at Palermo, but not exceeding 54° at Nice, Perpignan or Biarritz.

Wind light to moderate in force very generally, and very variable in direction; (1) anticyclonic from between North and West at our northern stations, and from North-East in the south; (2) calm and anticyclonic South-Easterly airs over Russia; (3) but complex cyclonic circulations prevailing over Scandinavia on the one hand, and over southern Europe and the Mediterranean on the other. Backing to the Westward in the north of Scotland later, but freshening from the Northward over France.

Barometer highest, (1) 30.1 ins. and more to 29.9 ins. over Russia and Poland; (2) 30.0 ins. and more to 29.9 ins. over Ireland and England. Lowest, below 29.6 ins. in large and complex, but shallow disturbances over Scandinavia on the one hand, and over the Mediterranean and the south of France on the other. Falling rather decidedly in the north of Scotland towards night, as well as over the southern parts of France.

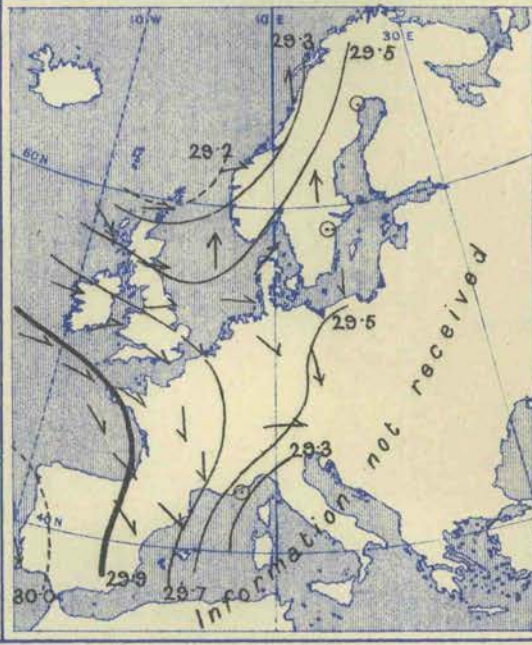
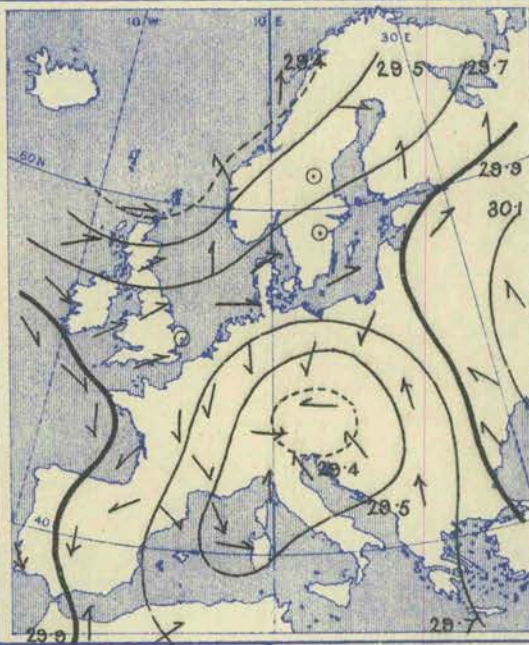
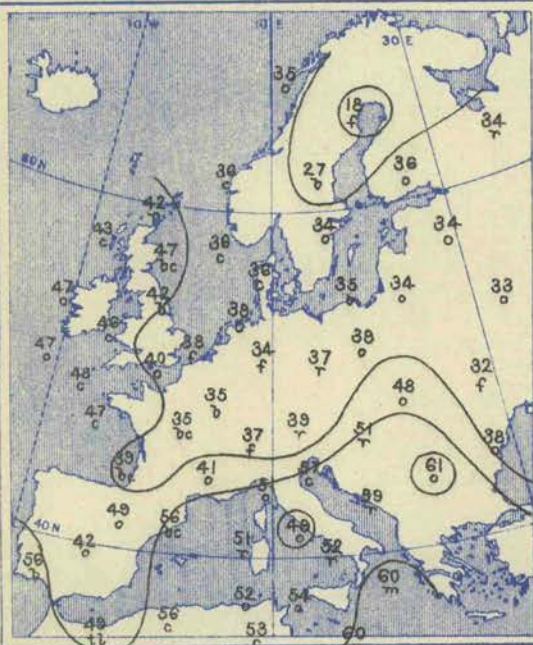
Temperature and Weather.

Barometer and Wind.

8 a.m.

8 a.m.

6 p.m.



Wind (1) anticyclonic from between West and North over Ireland, England, and the western half of France, and from between South-South-East and South-South-West over Russia. Cyclonic from the Westward over Scotland, and from South and South-East in Norway, and also over south Germany, the south-east of France; South-Westerly to Southerly over Algeria. Becoming more Northerly later over Scotland and the north of Ireland, and increasing in force.

Temperature risen a little over our Islands, and considerably over central Europe, fallen over France and the north of Scandinavia. Morning readings highest, 61° at Hermanstadt, 60° at Brindisi, and above 50° over Austria, as well as at most of the Mediterranean stations; 56° at Lisbon, 61° at Prawle Point, 47° at Valencia (Ireland), and Belmullet. Lowest, (1) 18° at Haparanda, 27° at Hernösand; 35° at Brussels and Paris; 37° to 39° over our north and east Midlands. Rising later to between 50° and 55° over our Islands and France, and to 57° at Pernau.

Barometer highest, (1) 30·1 ins. and more to 29·8 ins. over Russia; (2) 29·9 ins. and more to 29·8 ins. over Ireland, England, the north and west of France, and the west of Spain. Lowest, (1) below 29·4 ins. over the Shetlands and off the west coast of Norway; (2) 29·4 ins. and less to 29·5 ins. in a complex disturbance over south Germany, the north of Italy, the south-east of France, and northern parts of the Mediterranean. Falling briskly later over Scotland and the west of Norway rising slightly over France.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week barometric pressure was high over Russia and northern Europe, but low in some rather complex (but not deep) depressions lying over Spain, France, and the Bay of Biscay, and later on over Great Britain also, so that while North-Easterly winds of considerable strength prevailed over the northern part of our area, light cyclonic breezes were felt further to the southward, especially over France and western Germany. By Thursday the high-pressure area had reached central and eastern Russia, and a new similar system began to show itself off our extreme western coasts, these two systems being "cold" in the north, that over the southward across Ireland, England, the Netherlands and north Germany. To the northward of this "cold" Westerly winds were prevalent, and showery weather set in, while to the southward the wind was Easterly, and the weather not at all settled. Thus while the rainfall was comparatively slight in the north, that over the southern half of France and north of Italy was very considerable—amounting to between 3 and 4 ins. during the week both at Leghorn and Rome.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 74.

STATIONS.	No. of Hours recorded	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week
DEERNES (Orkney Islands)	34.6	?	38	?	WESTBOURNE (Emsworth)	29.0*	- 7.1	33*	- 9
STRATHPEFFER SPA	29.3	+ 0.9	33	0	WATERGATE (Emsworth)	20.6	?	23	?
EDINBURGH	20.4	- 3.6	23	- 5	BRIGHTON	35.3	+ 2.5	40	+ 1
MORPETH	27.2	?	31	?	EASTBOURNE	38.1	+ 3.0	43	+ 3
NEWCASTLE-ON-TYNE	17.8	?	20	?	VENTNOR HOSPITAL	29.7	?	33	?
OSWALDKIRK (Yorkshire)	20.8	- 7.7	23	- 10	SOUTHPORT	20.6	?	23	?
SHEFFIELD	10.2	?	11	?	COLWYN BAY	28.3	?	32	?
WORKSOP	18.0	- 7.6	20	- 10	TENBY	23.0*	- 14.6	26*	- 18
THURCASTON (Leicestershire)	19.0	- 6.0	21	- 8	NEWQUAY	39.1	+ 4.1	44	+ 4
HOLLESLEY BAY	39.7	?	45	?	TORQUAY	23.8*	- 12.5	27*	- 15
PLUMSTEAD COMMON	18.0	?	20	?	GUERNSEY	31.3*	- 6.7	35*	- 10
MARGATE	36.9	+ 6.6	41	+ 6					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

VOL. XV. No. 14.]
Third Series.

WEEK ENDING SATURDAY, APRIL 9TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 80.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	63	25	50.0	37.2	43.3	2 above	Day-deg. 29	Day-deg. +13	Day-deg. 13	Day-deg. -16	Day-deg. 170	Day-deg. + 55	Day-deg. 345	Day-deg. -182
	1. SCOTLAND, EAST	62	23	52.7	37.5	44.7	3 above	38	+16	13	-15	226	+ 71	364	-195
	2. ENGLAND, N.E.	67	26	54.9	38.9	46.5	4 above	45	+24	9	-15	271	+115	310	-176
	3. ENGLAND, EAST	69	24	57.4	37.8	47.1	3 above	53	+25	12	-14	252	+ 56	377	-171
	4. MIDLAND COUNTIES	69	22	56.8	37.4	46.7	3 above	52	+20	13	-14	270	+ 55	361	-186
5. ENGLAND, SOUTH	68	28	55.5	39.9	47.3	2 above	46	+17	6	-16	297	+ 69	224	-215	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	62	21	52.1	40.1	45.8	3 above	35	+13	5	-17	263	+ 96	231	-172
	7. ENGLAND, N.W.	67	26	53.7	40.5	46.8	2 above	40	+16	4	-17	259	+ 93	207	-202
	8. ENGLAND, S.W.	66	24	54.5	41.3	47.6	2 above	42	+12	2	-13	333	+ 77	201	-130
	9. IRELAND, NORTH	65	24	55.2	40.8	47.6	3 above	44	+15	3	-16	319	+ 96	213	-137
	10. IRELAND, SOUTH	65	25	56.3	43.8	49.7	3 above	54	+22	0	-14	419	+106	159	-109
	-CHANNEL ISLANDS-	64	35	56.5	44.3	50.1	2 above	57	+24	0	- 5	466	+134	55	- 89

DISTRICTS. (See p. 80.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percent-age of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percent-age of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 13	10ths of in. 7 more	83	+15	20.2	+ 5.8	26	0	28	0	219	+21	23	+ 3
	1. SCOTLAND, EAST	5	5	0 (average)	57	+ 5	5.4	- 2.5	26	- 3	28	- 4	271	+34	29	+ 4
	2. ENGLAND, N.E.	4	2	3 less	48	- 2	3.7	- 2.2	31	+ 4	34	+ 3	278	+47	30	+ 5
	3. ENGLAND, EAST	2	2	3 less	43	- 6	3.7	- 2.0	45	+12	49	+12	286	+13	29	+ 1
	4. MIDLAND COUNTIES	3	3	2 less	42	- 5	3.1	- 3.5	42	+13	46	+14	258	+16	27	+ 2
5. ENGLAND, SOUTH	2	1	4 less	39	- 6	3.6	- 3.7	46	+12	50	+12	273	+10	29	+ 1	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	13	6 more	68	+11	11.8	- 2.2	33	+ 4	36	+ 3	265	+47	29	+ 5
	7. ENGLAND, N.W.	4	6	0 (average)	54	+ 2	8.2	0.0	39	+10	43	+10	300	+84	33	+ 9
	8. ENGLAND, S.W.	4	4	2 less	52	0	6.4	- 3.9	45	+ 7	49	+ 7	322	+18	33	+ 2
	9. IRELAND, NORTH	5	9	3 more	66	+ 6	8.6	- 1.0	33	+ 5	37	+ 5	261	+29	27	+ 3
	10. IRELAND, SOUTH	4	7	1 more	48	- 7	7.3	- 3.3	34	0	37	0	289	+ 9	30	+ 1
	- CHANNEL ISLANDS-	3	1	4 less	59	+ 1	4.5	- 4.5	58	+24	63	+24	350	+14	36	+ 2

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather was fair and dry over England during the greater part of the week, but over Ireland and Scotland the conditions were rather unsettled and rain was frequent. At the end of the week rain had extended to all parts of the Kingdom, and thunder and lightning occurred at some of the English stations.

Temperature was above the mean in all districts, the excess ranging from 2° to 3° over the major part of the Kingdom, and to 4° in England N.E. The highest of the maxima were recorded on the 7th in most parts of Ireland and on the 8th in Great Britain; they ranged from 69° in England E. and the Midland Counties, and 68° in England S. to 63° in Scotland N., and to 62° in Scotland E. and W. The lowest of the minima were registered either on the 5th or 6th, and varied from 21° in Scotland W. (at Glenlee) and 22° in the Midland Counties to 28° in England S., and to 35° in the Channel Islands. Towards the end of the week the night minima were high for the time of year.

Rainfall was much more than the mean in Scotland N. and W. and rather more over Ireland. In Scotland E. and England N.W. it just equalled the average, but in all other districts it was again deficient. In England S. and the Channel Islands the fall was very slight.

Bright Sunshine exceeded the mean except over Scotland E., where it was slightly deficient, and in Ireland S. and Scotland N. where it was just equal to the normal. The percentage of the possible duration ranged from 63 in the Channel Islands, and from 50 in England S. to 36 in Scotland W., 34 in England N.E., and to 28 in Scotland N. and E.

Barometer and Wind.—At the commencement of the week the barometer was highest in the south-west, while depressions were moving eastwards over our more northern coasts and spreading south-eastwards over the North Sea. By Tuesday these had moved away, and the distribution over our Islands had become anticyclonic. This change was of brief duration, and from Wednesday until the end of the week depressions travelled north-eastwards over our extreme western and north-western coasts, but did not extend much to the eastward until Saturday. Moderate to fresh North-Westerly winds prevailed during the first two days of the week, but during the latter part of the time they were South-Westerly very generally, and occasionally blew with considerable strength, especially in the west and north.

II.—DATA from which the SUMMARY on page 79 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
0. SCOTLAND, N.	Sumburgh Head	54	30	45.4	33.6	39.2	- 1.1	10	30	7	1.22	+ 0.71	*	*	*
	Stornoway	56	32	43.6	37.3	42.7	+ 1.0	25	13	7	1.47	+ 0.79	32.0	+ 2.8	34
	Wick	58	32	51.7	37.3	44.2	+ 2.6	35	13	6	0.22	- 0.16	*	*	*
	Lairg	62	29	51.8	36.1	43.5	+ 2.6	35	17	5	1.06	+ 0.46	*	*	*
	Glencarron	63	29	49.7	38.1	43.6	+ 2.5	28	11	7	1.87	+ 0.82	*	*	*
	Fort Augustus	61	25	51.9	37.7	44.5	+ 2.3	36	12	7	1.00	+ 0.55	24.3	+ 1.6	26
1. SCOTLAND, E.	Fort William	61	28	51.0	40.2	45.4	+ 2.5	31	5	6	2.56	+ 1.73	28.4	+ 1.4	31
	Nairn	62	28	53.3	36.7	44.6	+ 2.1	40	15	5	0.42	+ 0.14	*	*	*
	Aberdeen	58	29	52.4	37.4	44.5	+ 1.9	37	13	6	0.22	- 0.27	21.3	- 10.7	23
	Braemar	52	23	47.7	36.4	41.8	+ 2.3	16	22	5	0.58	+ 0.10	25.8†	- 2.9†	28†
	Ochertyre	62	26	54.4	39.0	46.3	+ 3.6	43	8	5	0.69	+ 0.07	*	*	*
	Leith	61	28	55.9	38.6	46.8	+ 3.1	48	10	4	0.28	- 0.10	*	*	*
2. ENGLAND, N.E.	Marchmont	58	26	52.3	36.9	44.2	+ 2.5	37	14	6	0.59	+ 0.02	26.8	- 0.8	29
	Alnwick Castle	62	27	53.9	38.3	45.7	+ 3.9	41	10	6	0.28	- 0.24	*	*	*
	Durham	67	26	55.6	37.5	46.1	+ 3.4	48	13	5	0.11	- 0.39	41.8	+ 13.9	45
	Shields	65	34	55.1	39.9	47.1	+ 4.4	45	6	4	0.14	- 0.28	*	*	*
	Scarborough	66	31	54.8	39.7	46.9	+ 3.4	44	6	1	0.09	- 0.38	33.6	?	37
	York	67	28	55.7	37.8	46.1	+ 2.2	48	13	3	0.10	- 0.33	25.2	- 3.8	27
3. ENGLAND, E.	Spurn Head	64	35	54.0	40.9	47.1	+ 4.1	40	3	4	0.18	- 0.16	*	*	*
	Hillington	60	27	58.0	37.9	47.5	+ 2.8	56	11	3	0.12	- 0.28	45.3	+ 14.8	49
	Yarmouth	62	33	54.3	39.3	46.4	+ 3.2	42	8	2	0.10	- 0.32	*	*	*
	Geldeston	68	29	58.3	38.5	48.0	+ 3.8	57	10	2	0.19	- 0.31	44.7	+ 9.9	49
	Cambridge	68	25	59.0	36.1	47.0	+ 2.1	60	17	3	0.20	- 0.18	48.6	+ 15.2	53
	Rothamsted	65	24	57.2	37.3	46.8	+ 2.8	53	13	2	0.13	- 0.33	39.4	+ 7.4	43
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	60	24	56.7	38.3	47.1	+ 2.7	51	10	4	0.09	- 0.33	*	*	*
	Loughborough	68	24	58.0	37.7	47.4	+ 2.5	56	12	4	0.28	- 0.14	*	*	*
	Stamford (Duddington)	64	29	54.8	38.8	46.4	+ 3.2	44	9	3	0.21	- 0.31	*	*	*
	Cheadle	65	24	56.0	36.3	45.7	+ 2.0	50	16	4	0.33	?	*	*	*
	Shirley (near Solihull)	66	24	56.7	37.2	46.5	+ 3.4	52	13	4	0.43	- 0.02	43.4	+ 12.5	47
	Churchstoke	66	24	56.7	37.2	46.5	+ 3.4	52	13	4	0.43	- 0.02	43.4	+ 12.5	47
5. ENGLAND, S.	Hereford	65	22	57.1	35.4	45.7	+ 2.0	54	18	3	0.33	- 0.17	50.0	+ 18.6	54
	Cloucester	67	27	58.4	38.1	47.8	+ 2.8	57	11	2	0.14	- 0.28	46.2	+ 15.1	50
	Oxford	68	30	59.6	39.4	49.0	+ 3.1	60	7	3	0.13	- 0.27	39.1†	+ 13.4†	43†
	London	62	37	55.1	41.0	47.7	+ 4.3	44	3	1	0.14	?	*	*	*
	North Foreland	63	28	57.7	38.5	47.6	+ 2.3	54	10	2	0.09	?	*	*	*
	Cranley	55	30	52.6	40.7	46.4	+ 1.7	36	4	3	0.05	- 0.43	*	*	*
6. SCOTLAND, W.	Dungeness	58	34	52.2	40.6	46.1	+ 0.8	35	4	2	0.10	- 0.42	46.2	+ 9.2	50
	Hastings (St. Leonards)	66	29	58.3	39.9	48.7	+ 2.2	56	6	3	0.17	- 0.31	46.5	+ 10.7	51
	Southampton	57	31	53.7	40.1	46.6	+ 1.1	40	5	2	0.05	- 0.40	*	*	*
	Hurst Castle	61	30	54.4	38.6	46.1	+ 2.2	43	10	3	0.24	- 0.28	*	*	*
	Shaftesbury	59	29	51.9	40.9	46.1	+ 1.8	33	3	7	1.80	+ 0.80	*	*	*
	Glasgow	57	30	51.8	41.0	46.1	+ 3.2	33	3	5	0.63	+ 0.09	25.8	+ 0.3	28
7. ENGLAND, N.W.	Ardrossan	56	30	50.4	40.9	45.4	+ 1.7	28	3	6	0.43	- 0.12	*	*	*
	Glenlee	60	21	53.5	37.4	45.1	+ 2.4	41	13	7	2.04	+ 1.24	*	*	*
	Gilcrux (Cumberland)	62	28	52.7	40.3	46.2	+ 3.5	37	5	7	2.11	?	28.4	?	31
	Douglas (Isle of Man)	58	23	52.3	40.1	45.9	+ 2.1	35	5	5	0.74	+ 0.09	44.1	+ 7.5	48
	Stonyhurst	63	28	52.0	39.2	45.2	+ 1.5	35	8	5	0.83	+ 0.15	32.9	+ 3.9	36
	Blackpool	67	26	53.9	38.2	45.7	+ 1.5	42	11	4	0.61	+ 0.11	37.8	+ 9.8	41
8. ENGLAND, S.W.	Manchester (Prestwich)	65	28	54.8	39.6	46.8	+ 2.6	44	7	6	0.60	+ 0.08	32.8	?	36
	Liverpool Obsy. (Bidston)	67	31	54.7	40.6	47.3	+ 2.5	43	4	3	0.19	- 0.25	*	*	*
	Llandudno	65	33	55.1	43.2	48.9	+ 2.9	48	0	2	0.24	- 0.24	44.9	+ 15.9	49
	Holyhead	58	35	51.6	42.0	46.6	+ 1.2	32	0	5	0.87	+ 0.39	*	*	*
	Llandovery	66	24	56.3	37.0	46.2	+ 1.3	50	14	5	0.97	+ 0.27	*	*	*
	Pembroke	54	37	49.9	43.7	46.7	+ 1.2	33	0	5	0.50	0.00	39.1	+ 1.7	43
9. IRELAND, N.	Clifton	65	31	56.8	41.6	48.8	+ 3.9	49	1	2	0.44	- 0.11	*	*	*
	Arlington (N. Devon)	65	28	55.7	39.9	47.4	+ 4.7	47	6	4	0.51	- 0.21	*	*	*
	Callumpton	63	27	58.1	39.3	48.3	+ 1.9	55	8	3	0.27	- 0.23	47.4	+ 14.0	52
	Falmouth	57	38	53.2	44.0	48.4	+ 2.2	45	0	5	0.48	- 0.15	50.1	+ 11.8	54
	Plymouth	61	33	53.9	41.5	47.4	+ 0.2	40	1	3	0.15	- 0.42	36.6	0.0	40
	Prawle Point	54	34	52.1	43.0	47.3	+ 1.6	37	0	5	0.15	- 0.32	*	*	*
10. IRELAND, S.	Malin Head	62	34	52.9	41.7	47.0	+ 2.4	36	1	6	0.69	?	*	*	*
	Londonderry	65	31	56.5	41.3	48.5	+ 3.1	48	2	4	1.09	+ 0.49	*	*	*
	Edenfel (Omagh)	64	26	55.3	40.3	47.4	+ 4.3	45	5	4	1.10	+ 0.55	*	*	*
	Belmullet	59	32	53.0	42.0	47.2	+ 1.2	36	0	7	1.28	+ 0.58	*	*	*
	Markree Castle	63	24	56.8	40.9	48.5	+ 3.8	50	3	6	0.99	+ 0.44	33.7	+ 4.7	37
	Armagh	61	28	56.2	40.3	47.9	+ 4.0	48	5	4	0.55	+ 0.08	33.0	+ 5.0	36
CHANNEL ISLANDS	Donaghadee	61	29	55.7	39.0	47.0	+ 2.0	48	8	5	0.37	- 0.15	*	*	*
	Edgeworthstown	62	?	55.3	?	?	?	?	?	3	1.12	+ 0.51	*	*	*
	Dublin	65	33	58.4	44.2	51.0	+ 4.8	63	0	3	0.10	- 0.39	42.4	+ 8.6	46
	Parsonstown	63	28	57.4	41.6	49.1	+ 4.2	51	1	3	0.62	+ 0.10	34.8	+ 3.3	38
	Kilkenny	61	25	56.0	42.0	48.7	+ 3.0	47	0	4	0.35	- 0.17	*	*	*
	Roche's Point	56	42	53.4	45.7	49.4	+ 0.4	52	0	4	0.87	+ 0.16	*	*	*
CHANNEL ISLANDS	Valencia	58	32	53.9	43.9	48.7	+ 0.9	47	0	6	0.90	+ 0.10	23.9	- 12.1	26
	Killarney	64	27	58.0	44.2	50.8	+ 4.6	62	0	5	1.21	?	*	*	*
	Foynes	64	33	56.7	44.7	50.4	+ 5.2	59	0	3	0.79	?	*	*	*
	Scilly (St. Mary's)	50	42	55.0	45.9	50.2	+ 2.4	57	0	4	0.19	- 0.35	43.3	?	47
	Jersey	64	35	58.0	42.6	49.9	+ 2.1	55	0	2	0.09	- 0.45	65.4	+ 23.8	71

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 3rd April.

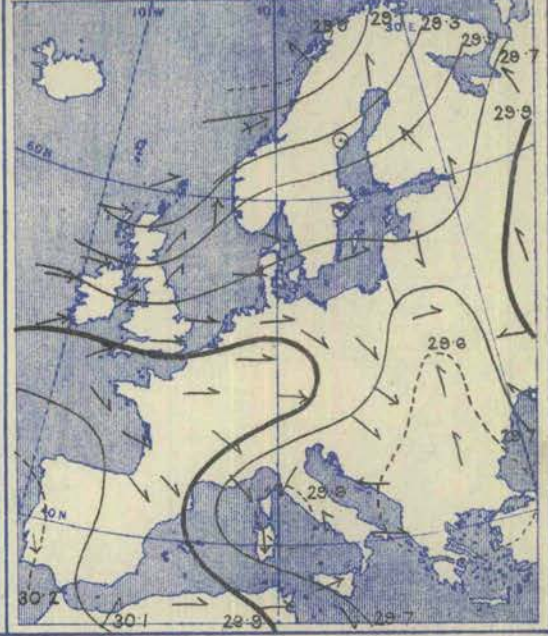
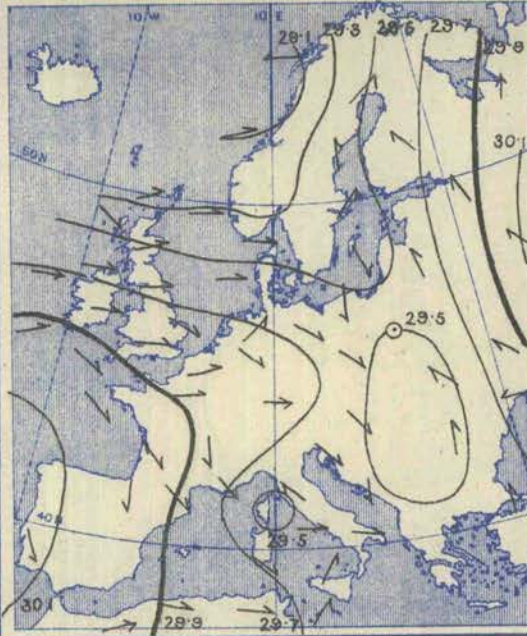
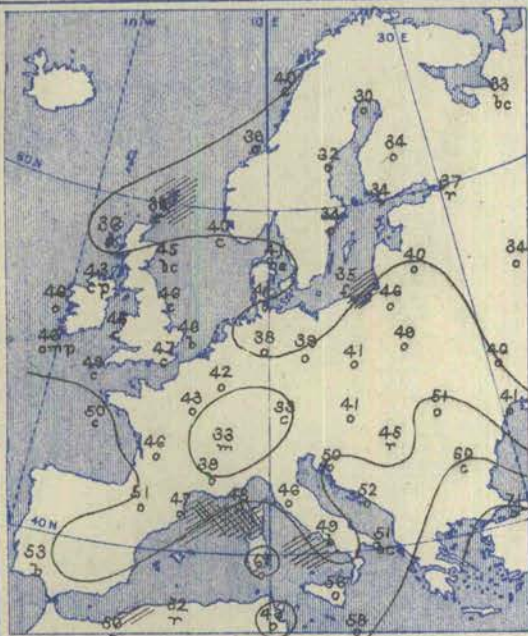
Temperature and Weather.

Barometer and Wind.

8 a.m.

8 a.m.

6 p.m.



Weather in morning fair or fine over western Europe as a whole, but cloudy and showery on our own extreme north and north-west coasts, with snow at Wick. Dull in most other localities, with rain over the Gulf of Finland and also at Cracow and Buda Pesth, and snow at Munich. Showers falling later in the west and north of our Islands generally, and larger quantities of rain in many parts of Italy and Austria. Thunderstorm at Uleaborg in evening.

Temperature risen over England and the northern parts of the Continent as a whole, but fallen elsewhere. Morning readings highest, 71° at Constantinople, 61° at Cagliari, 60° at Hermanstadt and 58° at Malta; above 50° at the Mediterranean, Adriatic and Spanish coast stations generally. Lowest, (1) 30° at Haparanda, 32° at Herösand and 33° at Uleaborg and Archangel; (2) 33° at Belfort and Munich. Rising during day to 50° and upwards in most parts of our Islands and to 58° in London; exceeding 60° in Spain and southern Italy and exceeding 70° in some parts of Turkey and Austria, the highest reading of all being 79° at

Wind light to fresh from the Westward over our Islands; the Netherlands and the eastern shores of the North Sea, and from the North-Westward in Germany and Austria, but Southerly or South-Easterly over the Spanish Peninsula and Russia. North-Westerly over the west and south of France; Westerly over southern Italy. Subsequently increasing to a moderate gale from the Westward in the north of Ireland, and to a fresh gale from the South-Westward in the west of Norway; no important change occurring elsewhere.

Barometer highest, 30.1 ins. in two anticyclones—one lying over central Russia and the other extending from the Atlantic over the western parts of the Spanish Peninsula. Lowest, 29.1 ins. and less in a depression off the west of Norway; 29.5 ins. and less in two other systems—one lying over the Gulf of Genoa and the other over eastern Austria. Depression off Norwegian coasts subsequently moving north-eastwards; disturbance over Austria travelling slowly south-eastwards and partially filling up.

Monday, 4th April.

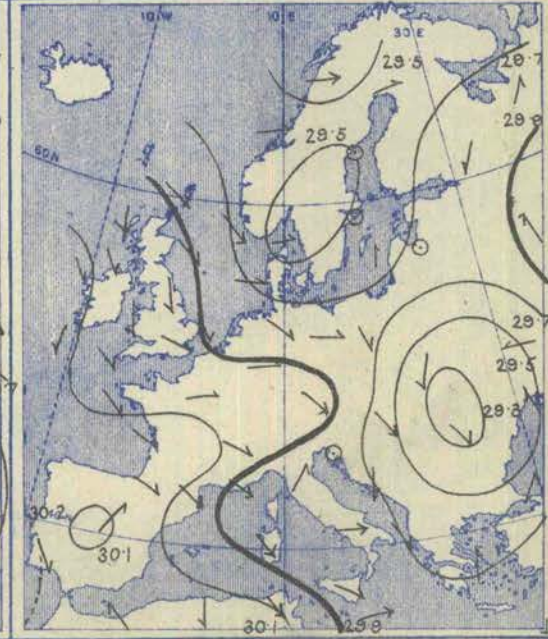
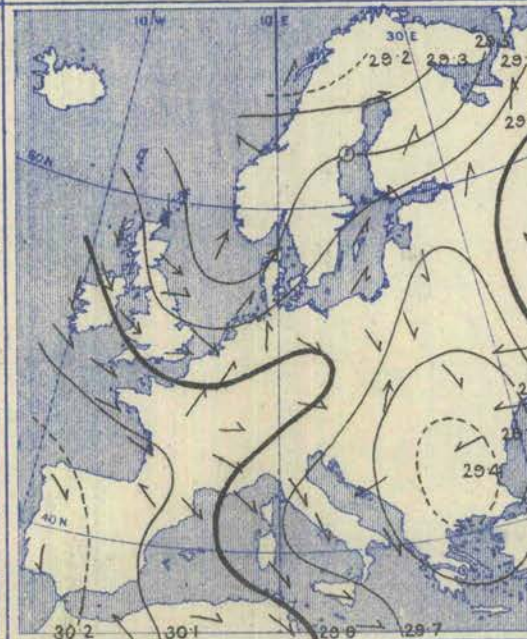
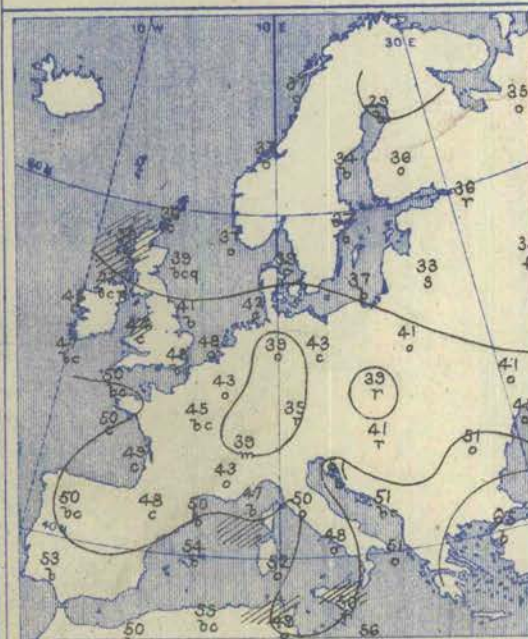
Temperature and Weather.

Barometer and Wind.

8 a.m.

8 a.m.

6 p.m.



Weather in morning fair over the United Kingdom as a whole, but showery on our extreme north and north-west coasts. Fine in Sweden and also over the Spanish Peninsula and the west of France; cloudy in most other parts of the Continent, with rain over Austria, and also at St. Petersburg, and snow at Riga. Showers occurring later in many parts of western Europe, with hail or snow at some of the more northern stations. Rain falling also in Austria and southern Italy, heavily at Buda Pesth.

Temperature fallen in most parts of our Islands and also in Norway and Austria, risen in most other countries. Morning readings highest, 65° at Constantinople, 56° at Malta, 55° at Algiers, and 54° at Barcelona; above 50° in most parts of southern Europe. Lowest, 29° at Haparanda, 30° at Hangö and Helsingfors, and 33° at Riga, below 40° in the north-eastern parts of Great Britain. Rising during day to between 50° and 55° at most of our own central and southern stations. Exceeding 55° in the west of France, and exceeding 60° over southern Europe generally. Sharp frost over central England at night.

Wind moderate to strong from the North-Westward over the western and northern parts of our Islands, and light from the same quarter in the west and south of France, and in Italy. Light to moderate from the Westward or South-Westward over the greater part of England and also over the Netherlands, Germany and Denmark; Southerly over the southern parts of Scandinavia, with a gale at Skudesnaes. Easterly in the south of Russia; variable or South-Westerly in the northern parts of that country. Subsequently veering to the North-Westward over England and the North Sea.

Barometer highest, 30.2 ins. and upwards in an anticyclone, extending from the Atlantic over the western parts of the Spanish Peninsula; 30.0 ins. and upwards in another area lying over central Russia. Lowest, 29.2 ins. and less in a depression lying off the north-west of Norway; 29.4 ins. and less in a secondary system over the south-west of that country, and also in another disturbance over south-eastern Europe. Norwegian depressions subsequently travelling eastwards; disturbance over south-eastern Europe moving slowly northwards and becoming somewhat deeper.

Tuesday, 5th April.

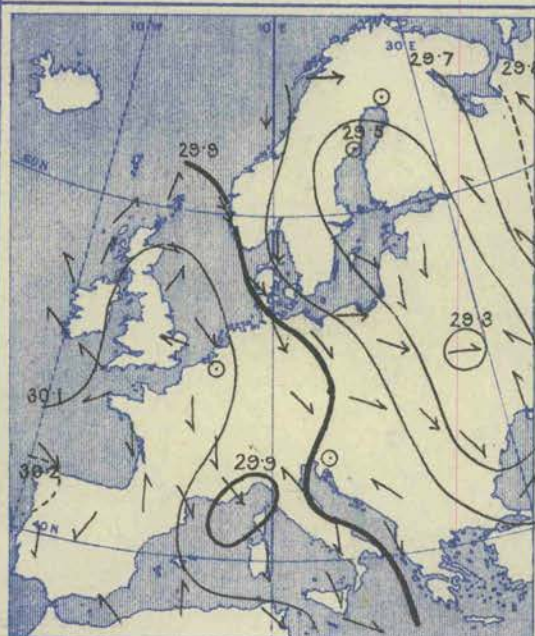
Temperature and Weather.

8 a.m.

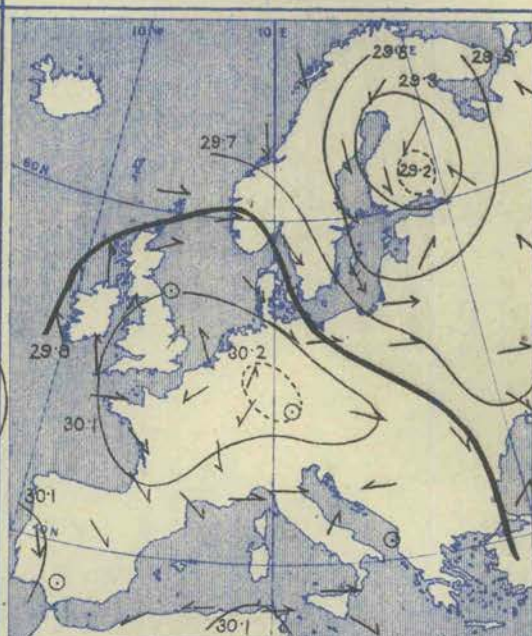


Barometer and Wind.

8 a.m.



6 p.m.



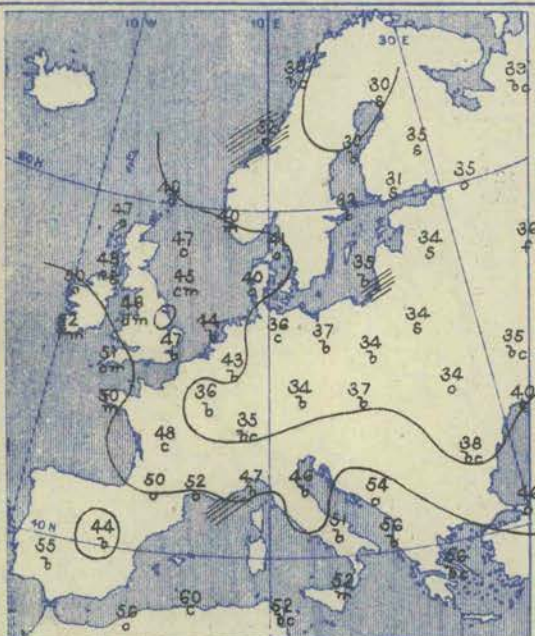
Weather in morning fine over western and southern Europe generally, but foggy over central England, and dull in the western parts of Ireland and France. Cloudy or dull in most of the north-eastern and central countries, with rain at Riga and Hermanstadt, and snow at Hernösand and Christiansund. Cloudy, showery weather setting in later over Ireland and the west and north of Scotland. Solar and lunar halos seen in several parts of our Islands. Temperature fallen several degrees over England, and to a less extent over Scandinavia, but changed irregularly elsewhere. Morning readings highest, 63° at Algiers, 57° at Constantinople, and 55° at Barcelona and Malta; above 50° at the Mediterranean, Adriatic and Spanish coast stations generally. Lowest, (1) 26° at Haparanda, and 33° at Christiansund and Memel; (2) 28° at Loughborough, and 33° at York (below 40° in many parts of Great Britain). Rising during day to between 50° and 55° in most parts of England and Ireland, exceeding 55° over the northern parts of France, and exceeding 60° over southern Europe generally, the highest reading of all being 68° at Palermo. Sharp frost occurring over the inland parts of England at night.

Wind moderate to strong from the Northward over Norway, Denmark, Germany, Austria, and Italy, and light from the same quarter in the east of England; light to moderate from the South-Eastward in Russia. Northerly over France and the Spanish Peninsula; North-Easterly over the English Channel, South-Easterly or Southerly on our western coasts, South-Westerly in the north of Scotland. No important change occurring later. Barometer highest, 30.1 ins. and upwards in an anticyclone covering the greater part of our Islands and France, Spain, and Algeria. Lowest, 29.3 ins. and less in a depression over eastern Austria; 29.4 ins. and less in another disturbance over the southern parts of the Gulf of Bothnia; 29.9 ins. and less in a third system over the Gulf of Genoa. Barometer falling slightly over north-western Europe during day, and new depression beginning to approach our western coasts. Disturbances over eastern Austria and the Gulf of Genoa partially filling up.

Wednesday, 6th April.

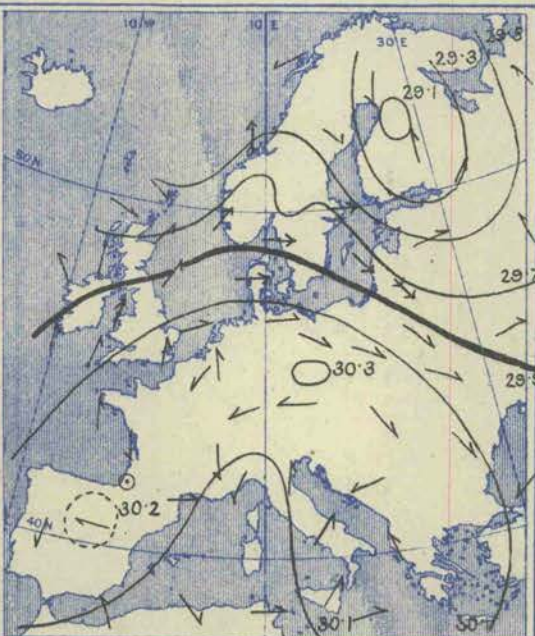
Temperature and Weather.

8 a.m.

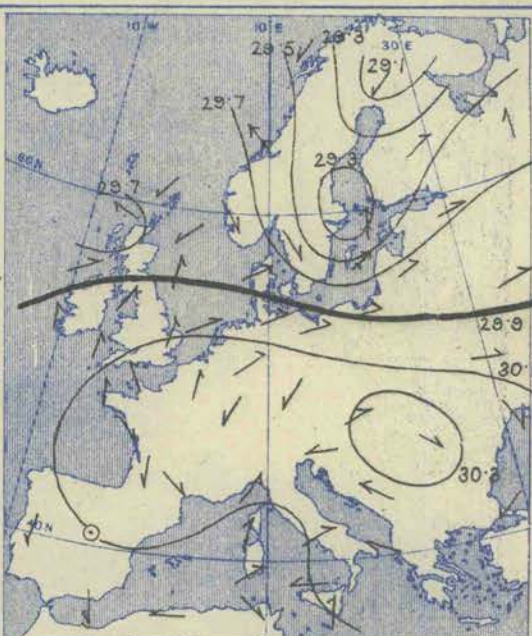


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over England, France, the Netherlands, Germany, Spain, Austria and southern Italy, as well as at most of the Swedish stations, cloudy or dull in the west and north of our Islands, with showers in a few places; dull also over northern Italy, with rain at Pesaro and also at Barcelona; snow falling over Lapland, Finland and the Baltic Provinces. Rain falling later at most of our own western and northern stations, and snow in several parts of Scandinavia.

Temperature risen in our Islands and also in Italy, but fallen in most other countries. Morning readings highest, 60° at Algiers and 56° at Nemours, Brindisi and Athens; above 50° at the Mediterranean, Adriatic and Spanish coast stations generally, as well as in the extreme south-west of our Islands. Lowest, (1) 30° at Haparanda, Hernösand and Bodö, and 31° at Hangö; (2) 34° at Breslau, Warsaw and Munich. Rising during day to 55° and upwards in most parts of our Islands and France, and reaching 62° in London and at Parsonstown. Exceeding 60° over southern Europe generally and touching 70° at Lisbon.

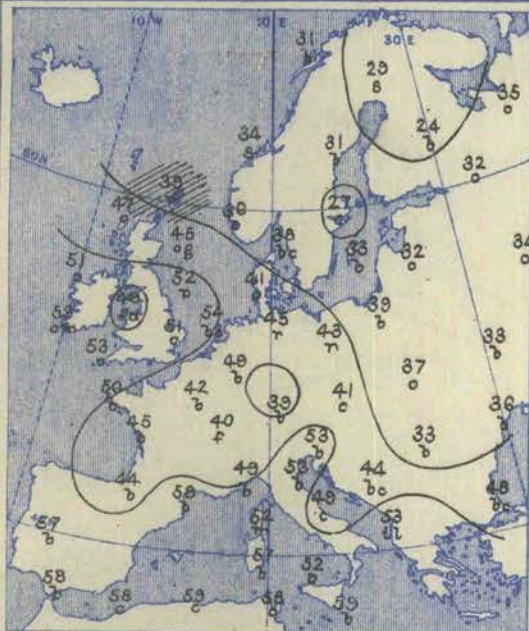
Wind Southerly or South-Westerly over the greater part of our Islands and fresh in force at some of our western stations. Strong to a gale from the same quarters in the west of Norway, but North-Westerly in the extreme north of Scotland. Westerly or North-Westerly over Sweden, Denmark, Germany and Austria, with a gale at some of the Baltic stations; Southerly or South-Easterly over the central parts of Russia. Light from between East and North over France, Spain and northern Italy, but South-Westerly in southern Italy. Subsequently veering to the North-Eastward in the north of Scotland, Southerly and South-Westerly gales springing up in the south of Sweden.

Barometer highest, 30.2 ins. and upwards over Germany, Belgium and the north of France and also over central Spain; 30.1 ins. and upwards in an anticyclone covering the central and southern parts of Europe generally. Lowest, 29.1 ins. and less in a well marked depression over Finland; 29.5 ins. and less in another disturbance off the west of Norway. Depressions subsequently moving eastwards, but small secondary system forming over the north-west of Scotland.

Thursday, 7th April.

Temperature and Weather.

8 a.m.

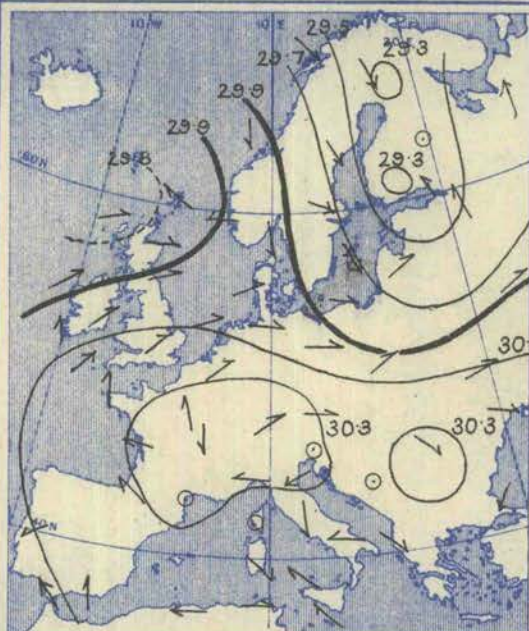


Weather in morning cloudy in most parts of our Islands, with fog at Holyhead, Prawle Point, and Hurst Castle, and rain at several of our northern stations. Fine in France, Spain, northern Italy, and the south of Russia, but cloudy in most other parts of the Continent, with rain in north Germany, and snow in several parts of Finland and Scandinavia; thunderstorm reported at Brindisi. No important change occurring over western Europe during day. Lunar halo seen in London at night.

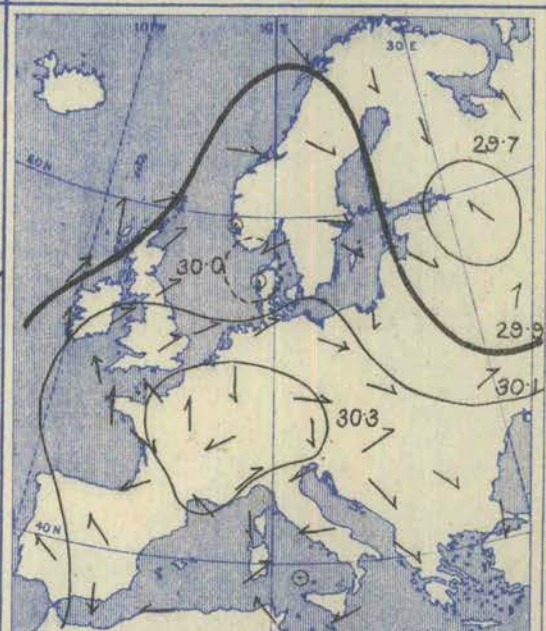
Temperature risen in our Islands, the Netherlands, and Germany, but fallen in most other countries. Morning readings highest, 59° at Algiers, and 58° at Barcelona, San Fernando, Oran, La Calle, and Malta; above 50° in many parts of England and Ireland. Lowest, 24° at Kuopio, 27° at Stockholm, 28° at Karlstad, and 29° at Hangö. Rising during day to 60° and upwards at many of the English, Irish, and French stations; reaching 67° at Paris, 68° at Biarritz, and 72° at Lisbon.

Barometer and Wind.

8 a.m.



6 p.m.



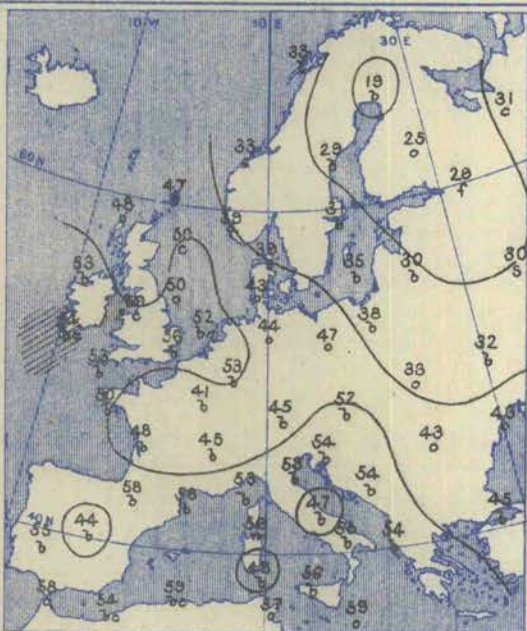
Wind South-Westerly over our Islands, the Netherlands, and Germany, and fresh in force at several of our western stations. Easterly over the greater part of southern Europe, with a moderate gale at San Fernando. North-Westerly over Scandinavia and Denmark, with a whole gale at Wisby; light from the Westward over Austria and the south of Russia; South-Westerly or Southerly over the northern and central parts of Russia. Subsequently backing to the Southward on our own western coasts; no important change occurring elsewhere.

Barometer highest, 30.3 ins. and upwards over France, Switzerland, and south Germany, and also over eastern Austria; 30.1 ins. and upwards in an anticyclone embracing the southern half of Europe generally. Lowest, 29.4 ins. and less in an elongated depression over Lapland and Finland; 29.8 ins. and less in a shallow area off the north-west of Scotland. Depression over Finland subsequently moving south-eastwards and partially filling up; no important change occurring elsewhere.

Friday, 8th April.

Temperature and Weather.

8 a.m.

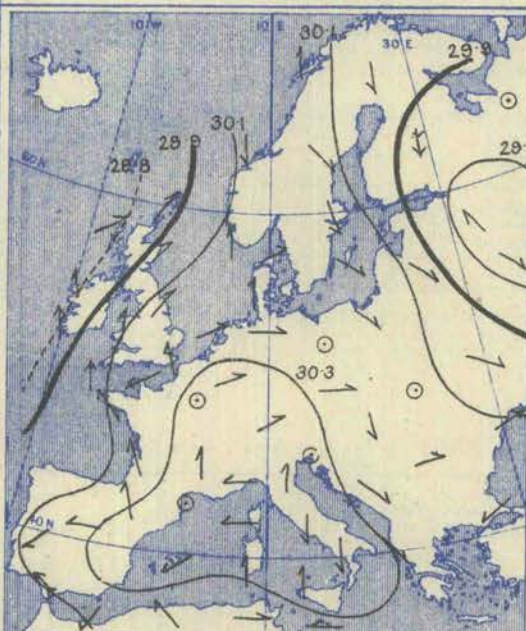


Weather in morning fine over the greater part of western and southern Europe, but cloudy or dull at several of our own northern stations, as well as in the west of Norway, with rain at Skudesnaes. Fine over Sweden, Finland and the Baltic; dull in eastern Germany, Austria and Russia, with rain at Breslau and Nicolaieff, and snow at Moscow. Rain setting in later in the west of Ireland and spreading quickly eastwards at night over nearly the whole of the United Kingdom. Lunar halo seen at Dungeness, and an aurora at Wick.

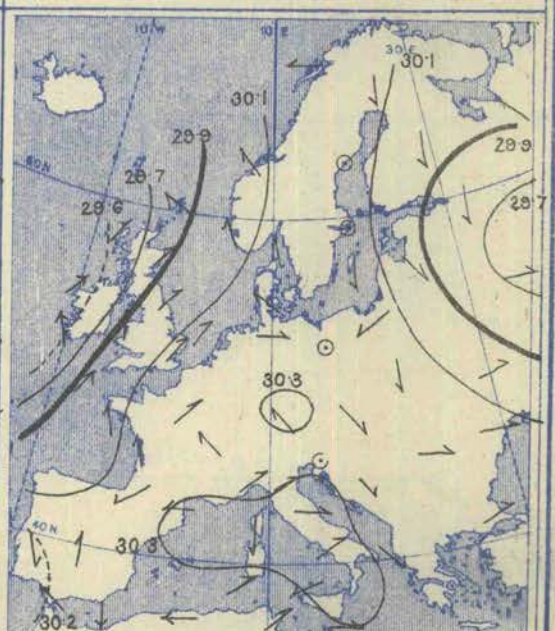
Temperature fallen in most parts of England and Ireland, and also in Russia, but risen in most other countries. Morning readings highest, 65° at Bilbao, 60° at Palma and 59° at Malta and Algiers; above 55° at several of the Mediterranean and Spanish coast stations, and above 50° in many parts of the United Kingdom. Lowest, 19° at Haparanda, 24° at Hangö and 25° at Uleaborg and Kuopio; below the freezing point over Sweden and Russia generally. Rising during day to 60° and upwards at some of the Irish and Scotch stations, and to 65° and upwards in many parts of England, France, Belgium and southern Europe, reaching 70° at Biarritz, 71° at Paris and 77° at Bilbao.

Barometer and Wind.

8 a.m.



6 p.m.



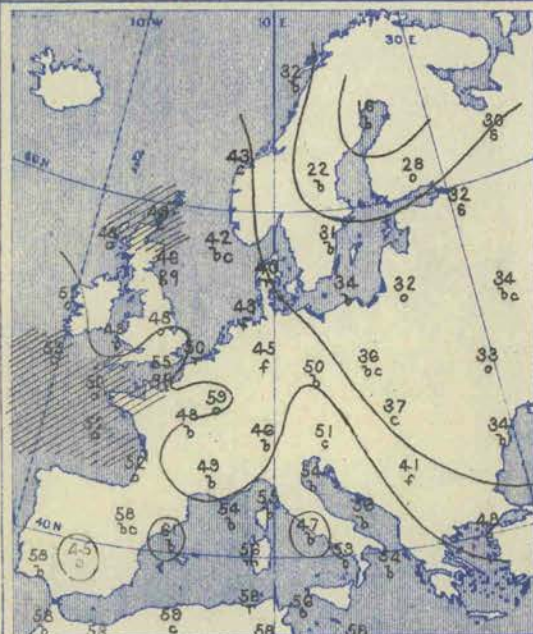
Wind Southerly in our Islands, and fresh to strong in force on our western coasts, South Easterly in the west of France, Northerly or North-Westerly over Scandinavia and the western parts of Russia, with a gale at Kuopio; Westerly or South-Westerly in the south of Russia. Variable in Germany, central France and northern Italy; Northerly or North-Westerly in the south of Italy; Easterly or North-Easterly over the greater part of the Spanish Peninsula. Subsequently increasing in force in Ireland and the west and north of Scotland, and blowing a gale at Roches Point.

Barometer highest, 30.3 ins. and upwards over Spain, France, Switzerland and Italy; 30.1 ins. and upwards in an anticyclone covering all but the eastern and most western parts of Europe. Lowest, 29.7 ins. and less in a large depression over central Russia; 29.8 ins. and less in another disturbance lying to the westward of our Islands. Latter disturbance subsequently spreading eastwards, and barometer falling over western Europe generally.

Saturday, 9th April.

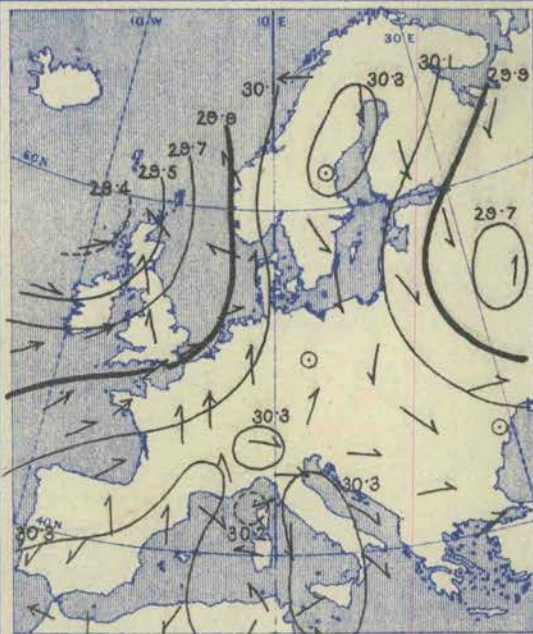
Temperature and Weather.

8 a.m.

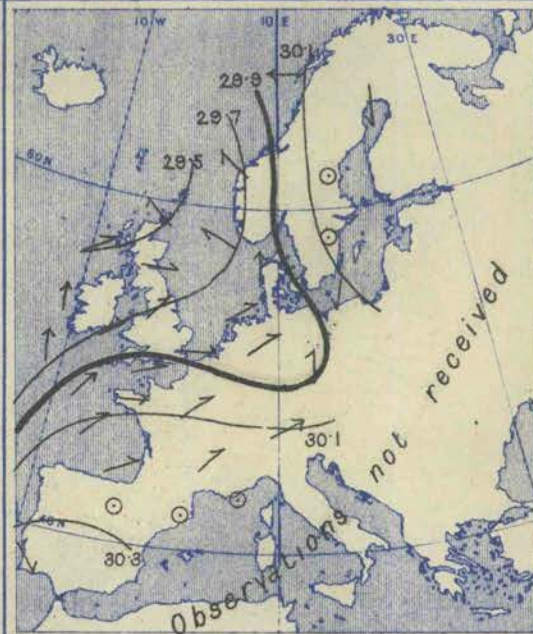


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy over north-western Europe as a whole, with steady rain on the east and south-east coasts of England, and passing showers in many other localities. Fine in France, and the central and southern parts of the Continent generally, as well as in Sweden; dull over northern Russia, with snow at Archangel and Kuopio. Rain falling during day over the whole of our Islands and their immediate neighbourhood; slight thunderstorm occurring in London at midday.

Temperature risen in the eastern and southern parts of England and the neighbouring parts of the Continent, but fallen in most other localities. Morning readings highest, 61° at Barcelona, and 59° at Algiers, La Calle, and Tunis; above 55° at most of the Mediterranean and Spanish coast stations, and above 50° in many parts of our own Islands. Lowest, 16° at Haparanda, 22° at Hernösand, 28° at Hangö and Kuopio, and 30° at Archangel. Rising during day to 55° and upwards in most parts of the United Kingdom, to 60° at Donaghadee, and to 61° in London. Exceeding 65° over France and the Spanish Peninsula, and reaching 70° at Paris and Lyons, and 73° at Lisbon.

Wind fresh to strong from the Westward in Ireland, and from the South-Westward over England; light to moderate from the Southward in Scotland, and from the South-Eastward in the west of Norway. Northerly over Sweden and northern Russia, but Westerly or South-Westerly in the south of Russia. Variable in the south of France and northern Italy; Easterly or North-Easterly over the Spanish Peninsula. Subsequently backing to the Southward on our western coasts, and increasing to a gale in the south of Ireland.

Barometer highest, 30.3 ins. and upwards over the Gulf of Bothnia, and also over Italy, the south of France, and the Spanish Peninsula; 30.1 ins. and upwards in an anticyclone covering the whole of central and southern Europe, and extending northwards over the Baltic, Sweden, and Finland. Lowest, 29.4 ins. and less in a depression lying to the northward of the Hebrides; 29.7 ins. and less in another disturbance over central Russia. Small secondary disturbances forming later over the North Sea; new depression approaching our western coasts in evening.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week barometrical pressure was highest over the Spanish Peninsula, and lowest in a large and somewhat complex depression which moved eastward across Scandinavia, another low-pressure system being observed also over south-eastern Europe. Over our Islands and the North Sea the wind veered from the Westward to the Northward, with changeable, showery weather, while in Italy and Austria some heavy falls of rain occurred.

As the depression in the north moved away to the eastward the high-pressure system over Spain extended over the whole of western Europe, and fine weather set in generally, with high, day temperature, but sharp frosts at night over the inland parts of England. On the 6th the anticyclone receded southwards, while further depressions of a rather complex description skirted our own northern coasts and passed on to Scandinavia, the wind in our Islands backing to the South-Westward or Southward, with showers in the north-west and north.

An extension of the anticyclone on the 8th was marked by exceedingly fine, bright weather over the whole of Great Britain, but at night a rather deep depression moved northward along our west coasts, the system in the meantime spreading out rapidly in an easterly direction. By the close of the week Southerly and South-Westerly winds were reported over nearly the whole of western Europe, with changeable, showery weather in most districts, and with thunderstorms at some of the English stations.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 80.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	22.8	?	24	?	WESTBOURNE (Emsworth)	50.8*	+12.3	55*	+11
STRATHPEFFER SPA	21.9	- 8.5	23	-11	WATERGATE (Emsworth)	43.9	?	47	?
EDINBURGH	27.9	+ 2.1	30	+ 2	BRIGHTON	41.7	+ 6.4	45	+ 5
MORPETH	29.0	?	31	?	EASTBOURNE	50.2	+13.0	55	+14
NEWCASTLE-ON-TYNE	27.4	?	29	?	VENTNOR HOSPITAL	54.8	?	60	?
OSWALDKIRK (Yorkshire)	31.5	+ 1.5	34	+ 1	SOUTHPORT	38.8	?	42	?
SHEFFIELD	37.2	?	40	?	COLWYN BAY	49.0	?	53	?
WORKSOP	33.0	+ 5.9	36	+ 5	TENBY	36.6*	- 4.0	40*	- 6
THURCASTON (Leicestershire)	44.1	+17.1	48	+19	NEWQUAY	51.3	+14.3	56	+15
HOLLESLEY BAY	46.5	?	50	?	TORQUAY	52.1*	+13.1	57*	+14
PLUMSTEAD COMMON	33.3	?	36	?	GUERNSEY	64.0*	+23.2	70*	+24
MARGATE	51.4	+19.2	56	+20					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C. ; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH,
88 & 90, WEST NILE STREET, GLASGOW ; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.VOL. XV. No. 15.]
Third Series.

WEEK ENDING SATURDAY, APRIL 16TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE
UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 86.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	57	32	51.4	39.6	45.2	3 above	Day-deg. 32	Day-deg. +12	Day-deg. 7	Day-deg. -17	Day-deg. 202	Day-deg. + 67	Day-deg. 352	Day-deg. -199
	1. SCOTLAND, EAST	61	33	53.4	39.4	46.1	3 above	40	+13	7	-19	266	+ 84	371	-214
	2. ENGLAND, N.E.	60	35	54.0	41.5	47.4	4 above	40	+15	1	-19	311	+130	311	-195
	3. ENGLAND, EAST	63	30	56.2	40.7	48.1	3 above	48	+15	4	-17	300	+ 71	381	-188
	4. MIDLAND COUNTIES	61	28	55.4	40.1	47.4	2 above	46	+ 9	5	-17	317*	+ 65	365*	-204
	5. ENGLAND, SOUTH	64	32	55.0	42.3	48.4	2 above	45	+ 9	0	-17	342	+ 78	224	-232
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	58	31	52.7	41.5	46.8	2 above	36	+ 8	1	-17	299	+104	232	-189
	7. ENGLAND, N.W.	59	37	53.2	42.6	47.6	2 above	39	+10	0	-16	298	+103	207	-218
	8. ENGLAND, S.W.	65	31	53.7	42.5	47.9	1 above	41	+ 6	0	-11	374	+ 83	201	-141
	9. IRELAND, NORTH	59	32	53.6	39.7	46.3	1 above	40	+ 7	6	- 9	359	+103	219	-146
	10. IRELAND, SOUTH	61	30	54.1	40.0	46.8	0 (average)	42	+ 5	6	- 5	461	+111	165	-114
	—CHANNEL ISLANDS	58	37	55.3	46.1	50.5	2 above	60	+20	0	- 3	526	+154	55	- 92

DISTRICTS. (See p. 86.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	12	6 more	88	+16	21.4	+ 6.4	34	+ 4	34	+ 3	253	+26	24	+ 3	
	1. SCOTLAND, EAST	5	11	7 more	62	+ 6	6.5	- 1.8	33	+ 3	34	+ 1	304	+36	29	+ 3	
	2. ENGLAND, N.E.	5	10	6 more	53	0	4.7	- 1.7	24	- 9	25	-10	302	+38	29	+ 4	
	3. ENGLAND, EAST	4	5	1 more	47	- 5	4.2	- 1.9	34	- 2	35	- 4	320	+11	29	+ 1	
	4. MIDLAND COUNTIES	5	9	5 more	47	- 3	3.9*	- 3.2	34	+ 4	36	+ 2	292	+19	28	+ 2	
	5. ENGLAND, SOUTH	4	4	1 less	43	- 5	1.0	- 3.7	35	0	37	0	308	+10	30	+ 1	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	8	2 more	73	+13	12.7*	- 1.9	37	+ 7	39	+ 7	302	+54	30	+ 5	
	7. ENGLAND, N.W.	4	10	5 more	58	+ 3	9.3*	+ 0.6	38	+ 8	40	+ 7	338	+92	34	+ 9	
	8. ENGLAND, S.W.	4	10	4 more	56	+ 1	7.4	- 3.5	45	+ 5	48	+ 5	367	+23	34	+ 2	
	9. IRELAND, NORTH	6	9	3 more	72	+ 8	9.6*	- 0.5	44	+13	46	+13	305	+43	29	+ 4	
	10. IRELAND, SOUTH	5	17	11 more	53	- 5	9.0	- 2.2	49	+13	52	+13	338	+22	32	+ 2	
	— CHANNEL ISLANDS	5	6	1 more	64	+ 3	5.1	- 4.4	54	+12	58	+12	404	+25	38	+ 3	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this week was changeable over the Kingdom generally, falls of rain (heavy in all the western and northern districts) alternating with intervals of bright sunshine. Thunder and lightning occurred at some of the western stations on Friday, and thunder was heard in a few isolated parts of England on Saturday.

Temperature equalled the mean in Ireland S., but was again above it in all other districts. The highest of the maxima were registered during the earlier days of the week in Scotland, on variable dates in Ireland, and during the latter part of the week over England; they ranged from 65° in England S.W., 64° in England S., and 63° in England E., to 58° in Scotland W. and the Channel Islands, and to 57° in Scotland N. The lowest of the minima were recorded mostly on the 13th or 16th, and ranged from 28° in the Midland counties, and 30° in England E. and Ireland S., to 35° in England N.E., and to 37° in England N.W. and the Channel Islands.

Rainfall was more than the mean in all districts excepting England S., the excess being very

considerable in most of the western and northern parts of the Kingdom—and especially so over Ireland S.

Bright Sunshine exceeded the normal amount in most districts, but was only just equal to it in England S., and below it in England N.E. and E. The percentage of the possible duration ranged from 58° in the Channel Islands, and 52° in Ireland S., to 34° in Scotland N. and E., and to 25° in England N.E. The amount recorded at Jersey on Saturday amounted to 95 per cent. of the possible duration for that day, and that at Kew to 90 per cent.

Barometer and Wind.—The distribution of pressure over our Islands during this period was cyclonic. Depression of considerable size, but of no great depth, travelled in a north-easterly direction over our north-western and northern coasts, causing fresh or strong South-Westerly and Southerly winds or slight gales, while some small secondary systems moved in different directions over England. Owing to the presence of these the wind over England was more variable, but was mainly moderate from the South-Westward or Southward.

II.—DATA from which the SUMMARY on page 85 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	51	40	48.0	41.0	44.3	+ 3.2	20	3	6	Inches. 0.67	Inches. + 0.19	*	*	*	*
	Sornoway	55	35	50.9	38.7	44.5	+ 2.7	31	9	7	0.90	+ 0.30	38.7	+ 5.8	39	+ 4
	Wick	57	35	53.1	40.9	46.7	+ 4.0	38	3	3	0.45	+ 0.07	*	*	*	*
	Lairg	57	32	53.9	38.1	45.6	+ 3.1	42	11	4	0.24	- 0.31	*	*	*	*
	Glencarron	54	34	50.6	38.3	44.2	+ 1.8	31	10	5	1.93	+ 0.98	*	*	*	*
	Fort Augustus	56	35	52.0	39.2	45.3	+ 1.6	35	8	5	1.11	+ 0.67	30.3	+ 5.0	31	+ 6
1. SCOTLAND, E.	Fort William	55	37	51.5	41.2	46.1	+ 1.6	32	2	7	2.91	+ 2.13	28.0	- 2.0	29	- 3
	Nairn	59	34	55.1	38.1	46.2	+ 2.4	46	11	3	0.30	+ 0.02	*	*	*	*
	Aberdeen	60	37	53.1	40.4	46.5	+ 3.0	38	4	5	1.82	+ 1.36	31.5	- 2.5	32	- 4
	Braemar	52	33	48.3	36.9	42.3	+ 2.0	24	14	5	1.91	+ 1.41	38.5†	+ 8.5†	40†	+ 8†
	Ochertyre	59	35	55.3	38.6	46.6	+ 2.8	46	10	6	1.12	+ 0.59	*	*	*	*
	Leith	61	39	56.0	43.4	49.4	+ 4.7	52	0	4	0.44	+ 0.09	*	*	*	*
2. ENGLAND, N.E.	Marchmont	59	35	52.6	39.1	45.5	+ 2.8	37	8	5	1.20	+ 0.68	29.8	- 0.1	31	- 2
	Alnwick Castle	60	37	53.6	41.7	47.4	+ 4.8	39	8	7	1.24	+ 0.75	*	*	*	*
	Durham	58	35	54.3	40.2	46.9	+ 3.3	42	5	5	0.52	+ 0.05	20.0	- 8.0	21	- 9
	Shields	59	38	53.9	42.1	47.7	+ 4.3	40	0	4	0.47	+ 0.07	*	*	*	*
	Scarborough	58	38	53.8	41.0	47.1	+ 2.8	40	3	5	1.45	+ 1.03	27.0	?	28	?
	York	58	35	55.4	40.6	47.6	+ 2.4	45	4	5	1.23	+ 0.83	22.7	- 7.8	24	- 8
3. ENGLAND E.	Spurn Head	58	40	52.9	43.3	47.9	+ 3.9	41	0	5	0.91	+ 0.60	*	*	*	*
	Hillington	59	30	56.8	39.5	47.7	+ 2.1	50	7	4	0.79	+ 0.39	33.3	+ 0.2	35	0
	Yarmouth	59	36	52.4	42.3	47.1	+ 2.9	36	0	4	0.45	+ 0.06	*	*	*	*
	Geldeston	60	32	56.4	40.9	48.3	+ 3.3	49	3	6	0.53	+ 0.17	33.4	- 3.5	35	- 5
	Cambridge	63	32	59.0	40.4	49.3	+ 3.1	58	4	4	0.35	- 0.02	35.4	+ 0.4	37	0
	Rothamsted	59	30	56.2	40.3	47.9	+ 2.1	48	5	4	0.43	- 0.04	28.3	- 5.3	30	- 6
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	59	30	55.9	37.7	46.4	+ 0.7	49	12	5	1.27	+ 0.88	*	*	*	*
	Loughborough	61	31	56.4	40.9	48.3	+ 2.1	49	3	5	0.86	+ 0.46	*	*	*	*
	Stamford (Duddington)	60	32	56.9	40.9	48.5	+ 2.5	50	3	6	0.86	+ 0.46	*	*	*	*
	Cheadle	56	34	53.0	39.9	46.1	+ 1.9	38	6	6	1.35	+ 0.87	*	*	*	*
	Shirley (near Solihull)	55	43	53.2	40.4	46.5	+ 1.6	38	4	5	0.97	?	*	*	*	*
	Churchstoke	58	30	54.9	38.1	46.1	+ 2.0	45	11	4	0.80	+ 0.38	42.7	+ 10.0	45	+ 10
5. ENGLAND, S.	Hereford	60	33	57.4	41.3	49.0	+ 2.8	52	2	5	0.70	+ 0.29	*	*	*	*
	Cirencester	58	28	54.7	39.4	46.7	+ 2.0	44	7	4	0.82	+ 0.33	39.2	+ 5.4	41	+ 5
	Oxford	60	34	56.1	42.1	48.8	+ 2.3	48	0	3	0.65	+ 0.25	37.5	+ 4.4	39	+ 2
	London	61	35	59.1	42.7	50.5	+ 3.0	60	0	3	0.35	- 0.05	20.7†	- 1.3†	28†	- 2†
	North Foreland	55	37	53.3	42.9	47.9	+ 3.8	41	0	3	0.31	?	*	*	*	*
	Cranley	61	32	56.2	41.3	48.4	+ 1.9	48	2	4	0.55	?	*	*	*	*
6. SCOTLAND, W.	Dungeness	60	33	54.3	42.3	48.0	+ 2.1	42	0	3	0.07	- 0.33	*	*	*	*
	Hastings (St. Leonards)	56	38	53.6	42.2	47.6	+ 0.9	39	0	3	0.26	- 0.22	35.2	- 3.8	37	- 5
	Southampton	64	35	57.4	42.5	49.6	+ 1.8	53	0	4	0.50	+ 0.04	44.0	+ 6.0	46	+ 5
	Hurst Castle	56	37	53.1	43.9	48.3	+ 1.6	44	0	4	0.35	- 0.37	*	*	*	*
	Shaftesbury	57	35	53.0	40.7	46.6	+ 1.4	38	4	4	0.80	+ 0.22	*	*	*	*
	Laudale (Loch Sunart)	55	35	52.9	40.9	46.6	+ 1.3	37	3	5	1.60	+ 0.72	*	*	*	*
7. ENGLAND, N.W.	Glasgow	56	39	52.7	42.0	47.1	+ 2.8	36	0	3	0.53	+ 0.04	41.4	+ 13.6	43	+ 14
	Ardrossan	54	43	51.4	44.3	47.7	+ 2.7	40	0	3	0.20	- 0.29	*	*	*	*
	Glenlee	58	31	54.6	38.2	46.0	+ 2.2	44	11	4	1.12	+ 0.42	*	*	*	*
	Gilcrux (Cumberland)	54	39	51.8	42.0	46.7	+ 3.0	33	0	6	0.88	?	29.4	?	31	?
	Douglas (Isle of Man)	54	33	52.7	41.6	46.9	+ 2.1	36	1	6	0.37	- 0.19	40.0	+ 0.3	42	0
	Stonyhurst	54	38	51.8	42.1	46.7	+ 1.9	33	0	4	0.75	+ 0.17	34.0	+ 2.7	35	+ 1
8. ENGLAND, S.W.	Blackpool	57	37	53.2	42.3	47.5	+ 2.2	39	0	4	1.05	+ 0.65	32.7	+ 2.4	34	+ 2
	Manchester (Prestwich)	59	37	53.6	41.5	47.3	+ 2.3	39	1	4	1.07	+ 0.60	32.7	?	34	?
	Liverpool Obsy. (Bidston)	56	39	54.3	43.3	48.5	+ 2.3	46	0	3	1.11	+ 0.73	*	*	*	*
	Llandudno	57	42	53.9	43.3	48.4	+ 1.3	45	0	4	1.17	+ 0.75	48.8	+ 17.0	51	+ 18
	Holyhead	53	39	52.1	43.0	47.3	+ 0.9	37	0	3	0.72	+ 0.29	*	*	*	*
	Llandovery	58	31	55.1	40.9	47.2	+ 1.5	45	6	5	2.27	+ 1.66	*	*	*	*
9. IRELAND, N.	Pembroke	52	42	50.3	45.0	47.5	+ 1.4	39	0	3	1.26	+ 0.81	50.4	+ 10.4	53	+ 9
	Clifton	56	39	54.0	43.8	48.7	+ 2.8	47	0	4	0.58	+ 0.08	*	*	*	*
	Arlington (N. Devon)	56	33	53.0	40.3	46.4	+ 2.2	38	5	3	0.93	+ 0.28	*	*	*	*
	Cullompton	60	32	56.7	41.1	48.5	+ 1.0	49	3	4	0.71	+ 0.15	36.7	+ 1.7	39	+ 2
	Falmouth	55	40	53.8	43.6	48.5	+ 1.2	46	0	3	0.93	+ 0.28	46.8	+ 6.8	49	+ 5
	Plymouth	65	36	55.5	43.0	49.0	+ 0.8	49	0	4	0.71	+ 0.19	44.0	+ 5.0	46	+ 4
10. IRELAND, S.	Prawle Point	53	38	51.3	43.3	47.1	+ 0.6	36	0	4	0.38	- 0.07	*	*	*	*
	Malin Head	54	40	51.0	43.4	47.0	+ 1.4	35	0	7	0.35	?	*	*	*	*
	Londonderry	59	37	54.9	40.2	47.3	+ 0.9	45	5	6	0.80	+ 0.28	*	*	*	*
	Edenfel (Omagh)	55	32	52.6	38.6	45.3	+ 1.1	37	10	4	0.67	+ 0.19	*	*	*	*
	Belmullet	54	38	51.9	41.1	46.2	- 0.8	33	3	7	0.74	+ 0.14	*	*	*	*
	Markree Castle	57	32	54.9	37.8	45.9	+ 0.2	45	12	7	0.79	+ 0.29	39.6	+ 7.8	41	+ 6
CHANNEL ISLANDS	Armagh	58	35	54.0	39.0	46.6	+ 1.7	45	8	4	0.78	+ 0.30	47.7	+ 17.7	50	+ 18
	Donaghadee	58	34	54.3	40.1	46.9	+ 1.4	42	5	6	1.07	+ 0.60	*	*	*	*
	Edgeworthstown	58	33	54.4	37.3	45.5	+ 0.3	44	13	7	1.59	+ 1.01	*	*	*	*
	Dublin	61	38	57.1	41.7	49.0	+ 2.1	50	1	4	0.67	+ 0.19	52.2	+ 16.0	55	+ 16
	Parsonstown	57	34	54.1	39.7	46.6	+ 0.7	42	6	6	1.32	+ 0.82	46.0	+ 12.0	48	+ 11
	Kilkenny	57	30	54.0	37.3	45.3	- 1.3	43	13	5	1.13	+ 0.62	*	*	*	*
CHANNEL ISLANDS	Roches Point	55	36	53.6	41.6	47.3	- 0.4	39	1	6	1.95	+ 1.23	*	*	*	*
	Valencia	55	35	53.4	41.9	47.4	- 0.9	38	0	7	2.01	+ 1.16	40.3	+ 11.3	52	+ 11
	Killarney	57	32	54.2	38.5	46.0	- 0.9	43	10	6	3.15	?	*	*	*	*
	Foynes	56	36	52.3	39.6	45.7	- 0.8	36	7	4	1.79	?	*	*	*	*
	Scilly (St. Mary's)	56	45	54.9	47.1	50.8	+ 2.5	62	0	4	0.72	+ 0.21	52.9	?	56	?
	Jersey	58	37	55.7	45.1	50.2	+ 1.4	57	0	5	0.43	- 0.06	56.7	+ 13.1	60	+ 13

Stations marked *all* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

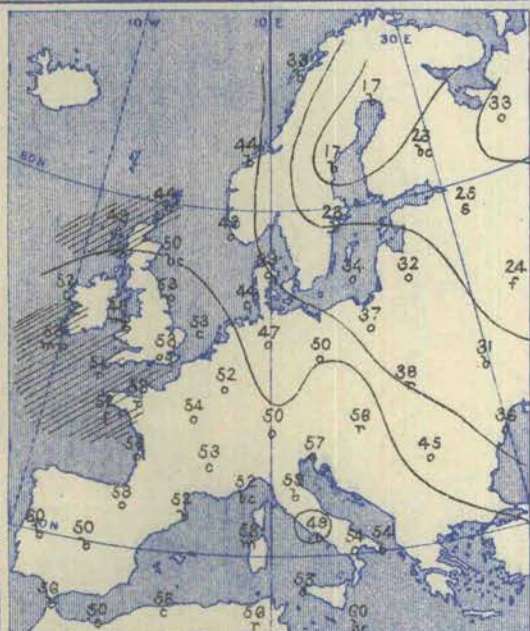
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 10th April.

Temperature and Weather.

8 a.m.

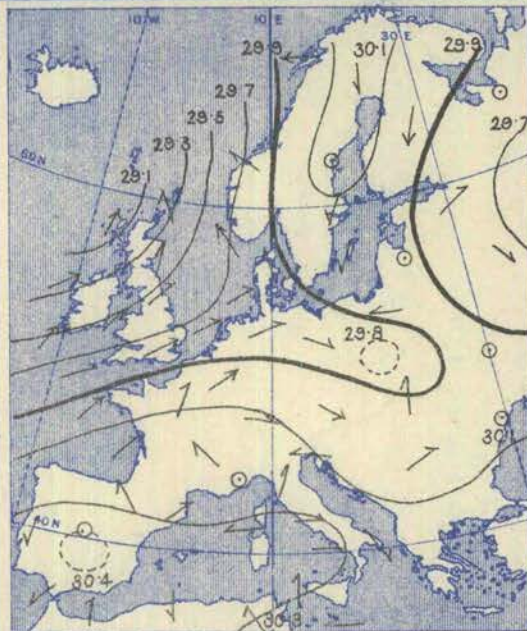


Weather in morning fine and bright over southern and many parts of northern Europe, dull and unsettled over the central countries, with rain in places; squally unsettled and showery over the British Islands and their neighbourhood. Rain falling later over all these last-named countries—the amounts considerable in several localities—notably at Lemberg and at Valencia (Ireland).

Temperature not changing decidedly. Morning readings highest, 67° at Barcelona, 60° at Lisbon and Malta, but below 60° at most of the Mediterranean stations; 57° at Trieste, 50° at Buda Pesth; 54° to 52° along the west coast of France, and at many stations in the British Islands, 55° at York and Nairn; 54° at Paris, 50° at Berlin. Lowest, 17° at Haparanda and Hernösand, 24° at Helsingfors and Moscow, 31° at Kiev and Memel, 33° at Bodo. Rising later to between 50° and 55° over Ireland, to between 55° and 60° in many parts of Great Britain, and touching 63° at Wiesbaden, 64° at Paris, 71° at Lyons, 73° at Brindisi, and 75° at Perpignan.

Barometer and Wind.

8 a.m.



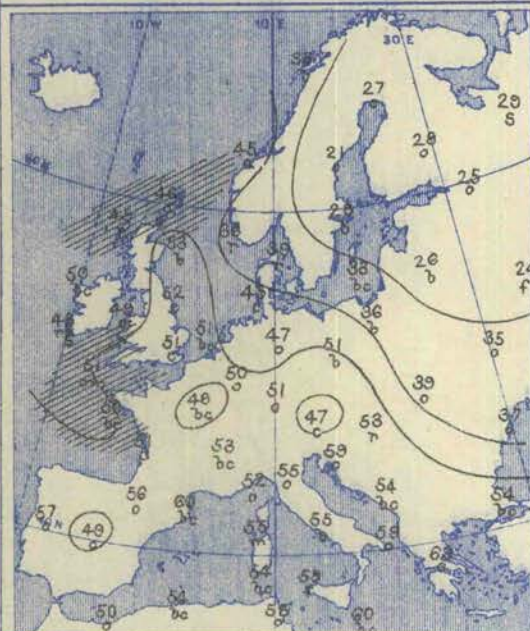
Wind (1) anticyclonic from the Northward and Eastward over Sweden, the Gulf of Bothnia, and the Baltic, and from the Southward and Westward over the south-west and west of France; (2) cyclonic over the British Islands, the Channel, and the North Sea—South-Westerly to Southerly in direction, and blowing very strongly in the north of Ireland and the west of Scotland, South-Easterly to Easterly in the west of Norway. Blowing a moderate gale over the Irish Sea also later on, and increasing over England as a whole. Little change on the Continent.

Barometer highest, 30.3 ins. and more to 30.1 ins. over northern Africa, the Mediterranean and the southern half of France, and exceeding 30.1 ins. over the Gulf of Bothnia also. Lowest, (1) below 29.1 ins. over the Hebrides, and extreme north-west of Scotland; (2) below 29.3 ins. in a small depression over south Germany. Gradients rather steep over our Islands. The north-western depression spreading eastwards and southwards later, and a secondary appearing over the North Sea (near Fanö) later.

Monday, 11th April.

Temperature and Weather.

8 a.m.

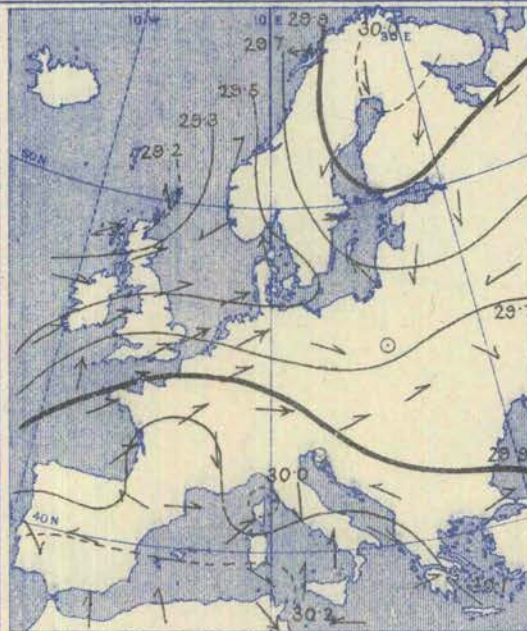


Weather in morning fair over Spain, fine and bright over France and central parts of England; dull over northern Europe, rainy over the British Islands and in Austria; foggy at Kharkov, snowing at some Russian stations. Rain falling later almost all over the United Kingdom and in several parts of France, north Germany and Poland—amounts large over the northern and western parts of England and over Ireland.

Temperature in morning highest, 63° at Barcelona and at Athens, 60° at Malta and at Cape Sicie; 56° at Biarritz, 52° at Nice, Turin, Jersey and Prague, 53° at Aberdeen, 52° at Shields, 51° at Holyhead and in London. Lowest, 21° at Hernösand, 24° at Moscow and below 30° over the greater part of northern Europe. Rising later to between 55° and 61° over the major part of Great Britain and touching 63° at Paris, 68° at Lyons, 70° at Biarritz, 72° at Perpignan, 73° at Palermo and Oran.

Barometer and Wind.

8 a.m.



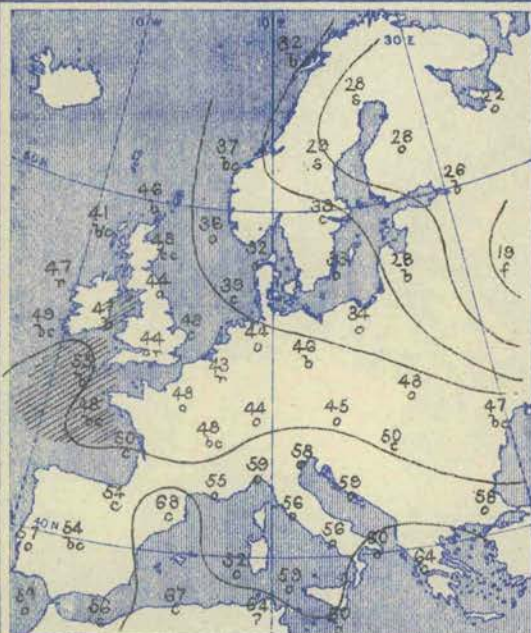
Wind anticyclonic in direction and light to moderate in force over the greater part both of northern and southern Europe (Northerly to Easterly in the former region, mainly Westerly in the latter—but very variable). Cyclonic South-Westerly to Southerly over the British Islands, and moderate to strong in force. Becoming strong to a gale later from between South-West and North-West over the southern parts of the British Islands, the Channel and north of France, but falling light in Scotland. Little change elsewhere.

Barometer highest, (1) 30.2 ins. and more to 30.0 ins. over Algeria, the Mediterranean and the southern countries of Europe generally; (2) 30.0 ins. and more at the northern extremity of the Gulf of Bothnia. Lowest, below 29.2 ins. over the Hebrides, the Shetlands and extreme north-west of Sutherlandshire and below 29.4 ins. over Denmark. Rising over Scotland later, but a well formed depression—secondary to the low pressure area in the north—advancing over the southern counties of England from the westward.

Tuesday, 12th April.

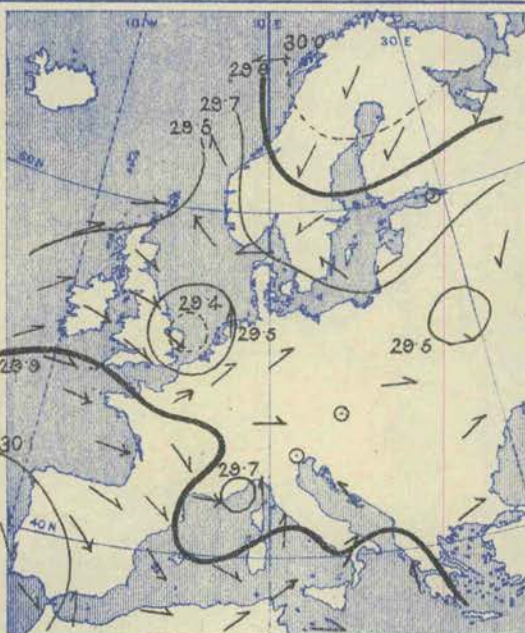
Temperature and Weather.

8 a.m.

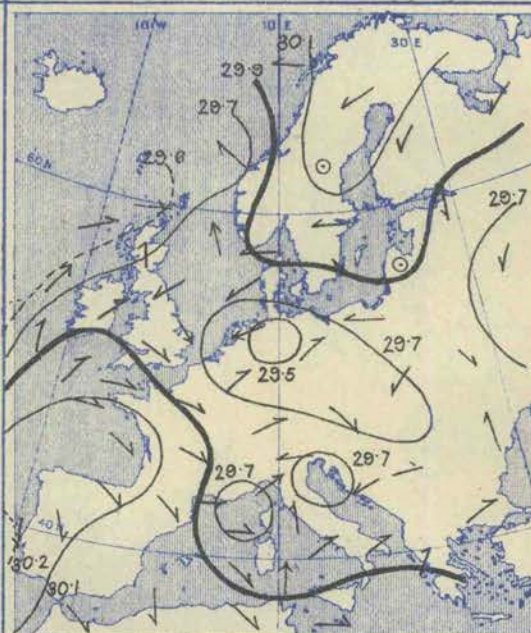


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Scotland and the western parts of our Islands (excepting the north-west of Ireland), as well as over the Bay of Biscay and Spain; squally and rainy over the eastern half of England and the Netherlands, snow falling over Finland, Sweden and the south of Russia, rain in some parts of the north of Italy. Much rain later over Ireland, and a little over the north of England; considerable quantities over the Netherlands and in some parts of Austria.

Temperature fallen over England, France and Germany. Morning readings highest, 67° at Algiers, 64° at La Calle and Patras, 57° at Lisbon, 54° at Biarritz and at Scilly, 49° at Valencia. Lowest, 19° Fahr. at Moscow, 22° at Archangel, and considerably below the freezing point over all the northern half of Russia; below 40° on the Norwegian coast and at Yarmouth, 42° at York. Rising later to between 55° and 59° over Ireland, but not so high over Great Britain and touching 59° at Paris, 78° at Nice, to 77° at Brindisi and to 81° at Palermo, La Calle and Algiers. Cold over England on succeeding night.

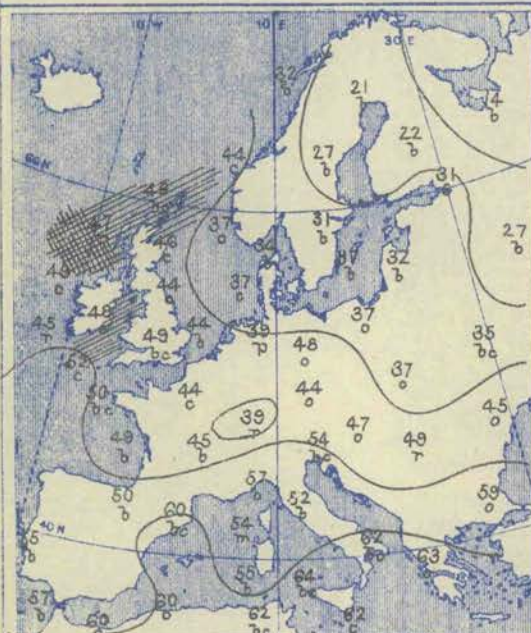
Wind (1) anticyclonic (North-East to South-East) over northern Europe and the Baltic, and of little strength; (2) anticyclonic Westward over Ireland; (3) cyclonic (a complex circulation) over the greater part of England, the north of France and the Netherlands, and blowing strong to a gale over the eastern parts of Kent and the English Channel. Moderating at these south-eastern stations later; backing to the southward again in the west of Ireland and increasing in force.

Barometer highest, (1) 30.28 ins. at Port Delgada (Azores), and ranging from 30.2 ins. to 30.0 ins. over the Iberian Peninsula and the south-west of France; (2) 30.0 ins. and more over Lapland and the north of Finland. Lowest, below 29.4 ins. in a small well marked depression lying between Yarmouth and The Helder, and below 29.5 ins. in two others—one lying to the northward of our Islands, the other over the western parts of central Russia; below 29.7 ins. over the Gulf of Genoa. Falling again in west of Ireland later, rising over Great Britain.

Wednesday, 13th April.

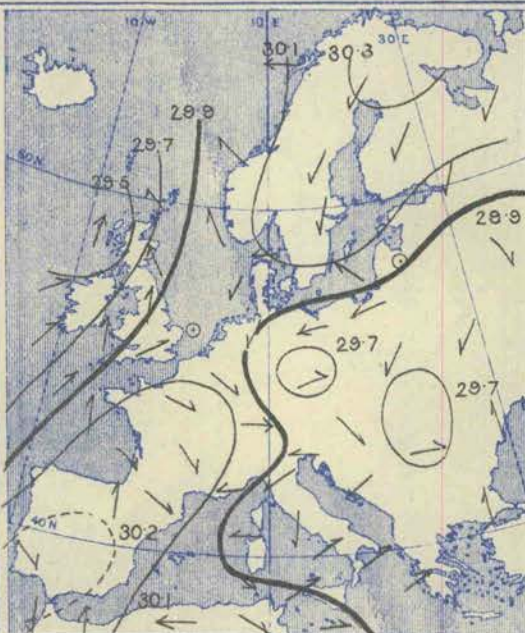
Temperature and Weather.

8 a.m.

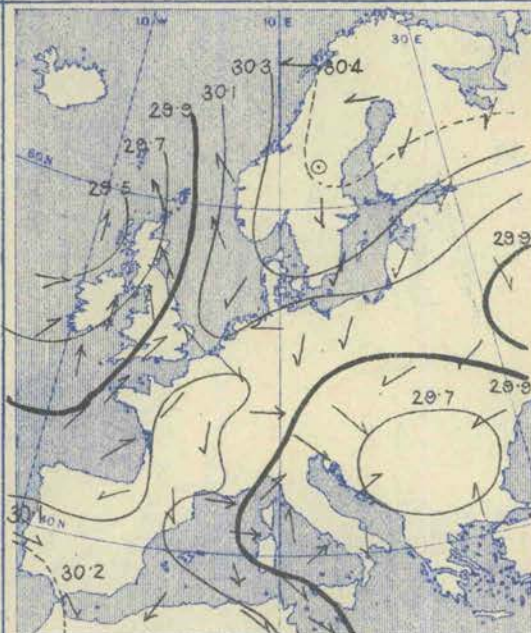


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Spain, France and the eastern half of England as well as over Russia, Finland, Lapland and Scandinavia generally; dull and rainy in the west and north of our Islands, as well as over Germany and Austria-Hungary, with rain in several places. Rain falling later in considerable quantities over several parts of Austria and south Germany, as well as over Brittany, the south-western parts of our Islands, some parts of Scotland; small quantities in the west and north of our Islands generally.

Temperature risen somewhat over England, fallen over France. Morning readings highest, 64° to 60° on the southern shores of the Mediterranean, 55° at Lisbon, 52° at Scilly and Jersey, 49° in London and at Belmullet. Lowest 14° Fahr. at Archangel, 27° at Moscow and Uleaborg, 31° at Karlstad and Stockholm, 33° at Kharkov. Rising later to between 64° and 70° in the south-west and south of France, and to between 60° and 55° in many parts of England.

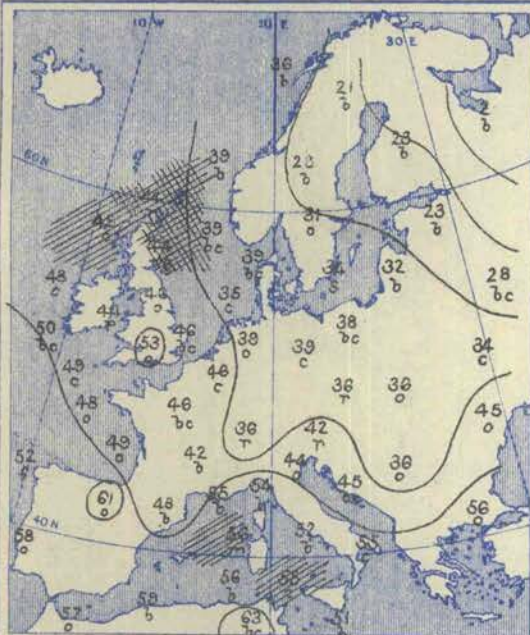
Wind (1) chiefly North-Easterly (East to North), and light over northern Europe, moderate over the Baltic; (2) anticyclonic and light over Spain and the greater part of France; (3) cyclonic, strong to a gale, from the Southward on our west and north-west coasts; (4) light to moderate, but cyclonic in a number of feeble systems over Russia, central Europe, and the northern parts of the Mediterranean. Blowing hard from South in the north-east of Scotland later, as well as on our north-west coasts.

Barometer highest, (1) 30.3 ins. and more to 30.0 ins. in an anticyclone over northern Europe; (2) 30.2 ins. and more to 30.0 ins. in another over Spain, France, and the south-east of England. Lowest, (1) below 29.5 ins. in a depression off our north-western coasts; (2) about 29.7 ins. in a shallow system over central Russia, and rather below 29.7 ins. in others over Austria-Hungary, north Germany, and Corsica. Further local disturbances approaching our own south-western coasts later.

Thursday, 14th April.

Temperature and Weather.

8 a.m.

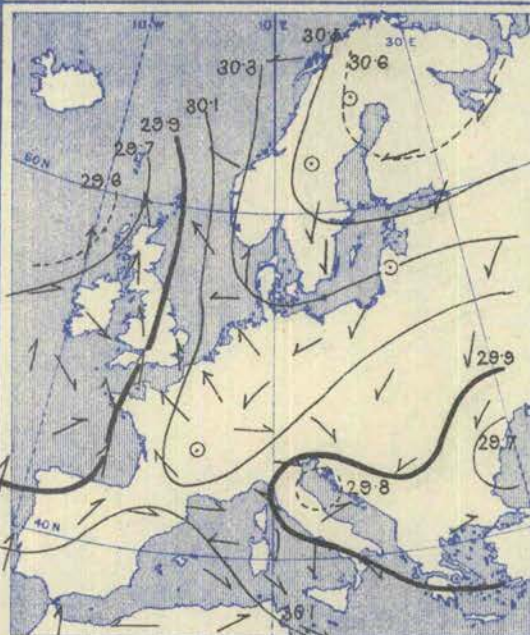


Weather in morning fine and bright over Russia and northern Europe, also over the greater part of the Mediterranean, and clearing up generally over Ireland; dull and rainy over Great Britain and some parts of France; snow and rain falling over Austria and some districts in south-eastern Europe. Rain falling later in nearly all parts of the United Kingdom and many parts of France and Portugal, the amounts being considerable in several places, large at Aberdeen, and very large at Oporto.

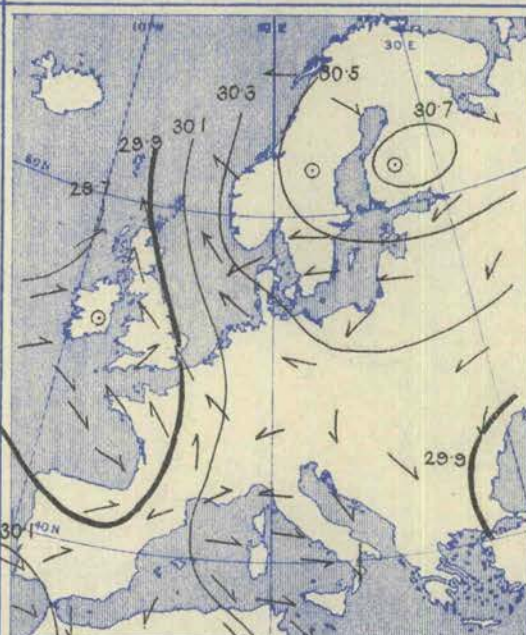
Temperature in morning highest, 68° at Stax, and between 60° and 55° at nearly all the Mediterranean stations; 61° at Biarritz, 50° at Jersey, Cambridge, and Valencia (Ireland), but 53° in London. Rising later to between 55° and 61° in many parts of Ireland and England, and to 68° at Paris and Biarritz, 71° at Cagliari, 73° at Clermont, 77° at La Calle.

Barometer and Wind.

8 a.m.



6 p.m.



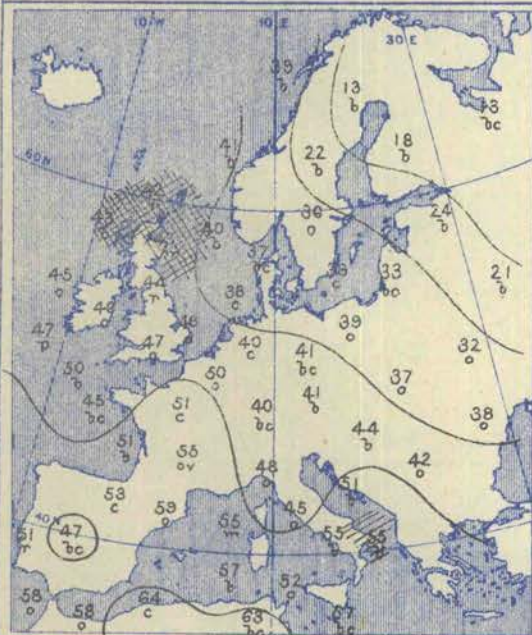
Wind (1) light and anticyclonic over northern Europe, and moderate over the Baltic and western Germany; (2) cyclonic and Southerly over nearly the whole of the British Islands, but North-Westerly over the Bristol Channel, Devon, and Cornwall; (3) chiefly North-Easterly over Hungary and the south of Russia, Northerly over the south-eastern parts of the Mediterranean.

Barometer highest, (1) 30.6 ins. and more to 30.4 ins. in an anticyclone lying over Sweden and the north of Russia, and exceeding 30.1 ins. in a "ridge" extending thence in a South-Westerly direction across Germany and the east of France to Lyons; (2) 30.2 ins. and more to 30.1 ins. over Algeria, the Mediterranean, and the southern parts of Spain. Lowest, (1) 29.6 ins. in a depression off our extreme north-west coasts, and below 29.8 ins. in a complex "V" shaped secondary over Wales, the south-west of England, and Brittany; (2) below 29.7 ins. in a disturbance over the northern parts of the Black Sea; below 29.8 ins. in another over Croatia, and below 30.0 ins. in a third over the Riviera. Rising on our northern and north-western coasts later, falling in the Channel.

Friday, 15th April.

Temperature and Weather.

8 a.m.

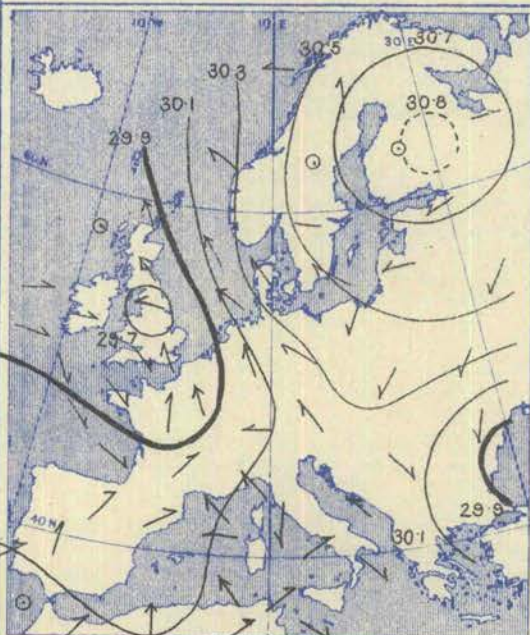


Weather in morning fine over northern, central, southern, and the greater part of western Europe, but unsettled and rainy (1) over the northern and north-eastern parts of Great Britain, (2) in Portugal, (3) on the northern shores of the Black Sea. Considerable rain later in various parts of Scotland and Ireland, and in many parts of France, Holland, Germany and the north of Spain; fine generally over England and Scandinavia, but thunder and lightning reported at Oxford and Roches Point.

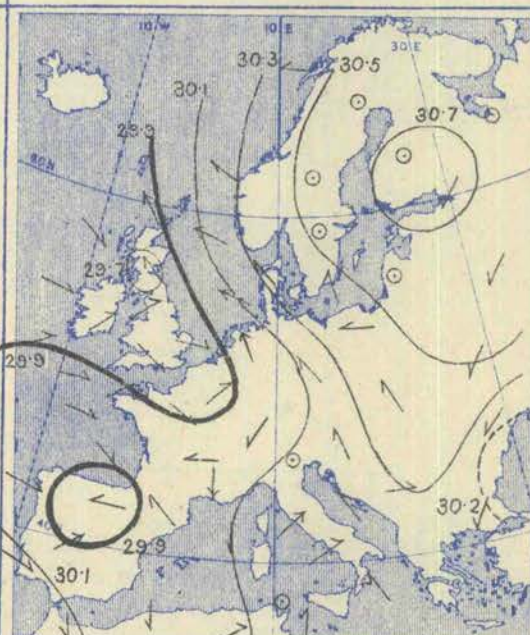
Temperature fallen decidedly over the United Kingdom, risen over France and the Mediterranean. Morning readings highest, 64° at Algiers, 63° at La Calle; 57° at Marseilles, 50° at Jersey and Scilly, as well as at Brussels. Lowest, 13° at Haparanda and Archangel, 18° at Kuopio, 21° at Moscow, 24° at Kharkov and 27° at Hangö; 37° at Breslau, 40° at Skudenes, 42° at Sunburgh Head, 43° at Aberdeen. Rising later to between 55° and 60° over many parts of England, to 60° at Paris, 61° at Lorient and Nice, 66° at Marseilles, 68° at Sangninares, 70° at Palermo. Falling considerably over the inland parts of Ireland and England at night.

Barometer and Wind.

8 a.m.



6 p.m.



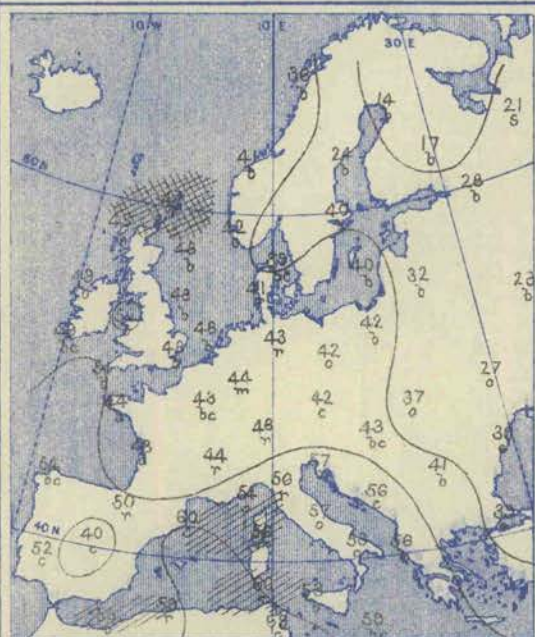
Wind varying greatly (1) anticyclonic over all the northern half of Europe, but blowing strongly from South-East on the eastern shores of the North Sea and on the north-east coasts of Scotland; (2) Westerly to North-Westerly over Ireland, the greater part of England and the west of France, but Southerly in the east of France, Easterly over western Germany; (3) cyclonic North-Easterly in the south of Russia, and variable South-Easterly to South-Westerly over the Mediterranean. Very strong South-Easterly winds continuing over the north-east of Scotland all day.

Barometer highest, (1) 30.3 ins. to 30.2 ins. in a large anticyclone covering the whole of northern and a great deal of central Europe; (2) 30.3 ins. to 30.2 ins. over the Adriatic and the eastern half of the Mediterranean. Lowest, (1) 29.7 ins. and less over the north-eastern parts of Great Britain, and below 29.9 ins. over all of the United Kingdom and the northern parts of France; (2) below 29.9 ins. over the Black Sea. Depression over Great Britain moving northwards later, but a fresh system apparently forming over north-western Germany.

Saturday, 16th April.

Temperature and Weather.

8 a.m.

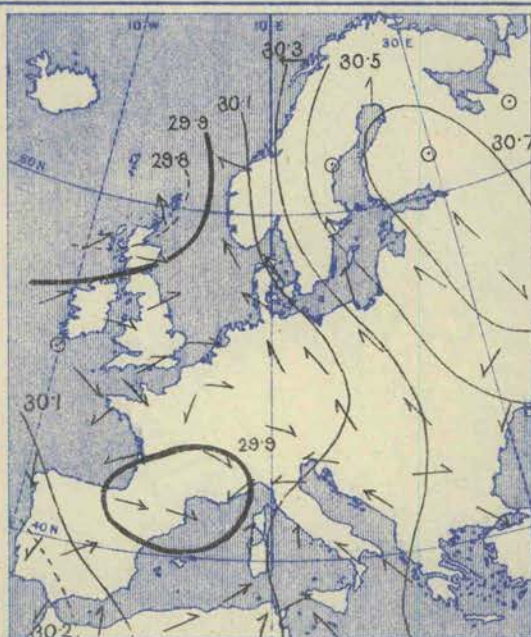


Weather in morning fine and bright (1) over northern Europe, central and western Russia, and (2) over the United Kingdom generally, and the north of France; dull and rainy over the southern half of France and the greater part of the Mediterranean. Large quantities of rain falling later over the last-named regions, and small quantities still later over the northern and western parts of the United Kingdom; lightning seen at Loughborough.

Temperature fallen over France and England but rising quickly in England at 8 a.m. Morning readings highest, 69° at La Calle, 60° at Cagliari and at Barcelona, 55° to 50° over the south-western and southern parts of France and the north of Spain; 52° at Jersey, 51° at Scilly, 49° along the west coast of Ireland. Lowest, 14° at Haparanda, 17° at Kuopio, 21° at Archangel, 22° at Kharkov, and much below 32° over Russia generally. Rising later to between 60° and 63° over the inland parts of England, to 63° at Lisbon and 65° at Perpignan.

Barometer and Wind.

8 a.m.



WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

Vol. XV. No 16.]
Third Series.

WEEK ENDING SATURDAY, APRIL 23RD, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 92.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	66	33	52.6	40.8	46.4	2 above	Day-deg. 36	Day-deg. +11	Day-deg. 3	Day-deg. -16	Day-deg. 238	Day-deg. +78	Day-deg. 355	Day-deg. -215
	1. SCOTLAND, EAST	65	33	53.3	39.3	46.0	2 above	39	+ 8	8	-11	305	+ 92	379	-225
	2. ENGLAND, N.E.	60	33	51.0	38.7	44.6	0 (average)	32	+ 4	9	- 5	343	+134	320	-200
	3. ENGLAND, EAST	64	28	52.8	35.4	43.7	3 below	40	+ 1	18.	+ 3	340	+ 72	399	-185
	4. MIDLAND COUNTIES	62	27	56.1	34.8	45.0	2 below	51	+ 9	20.	+ 4	368	+ 74	385	-200
Principal Grazing, &c., Districts.	5. ENGLAND, SOUTH	64	31	53.6	38.6	45.8	2 below	41	- 1	10	+ 1	383	+ 77	234	-231
	6. SCOTLAND, WEST	61	34	54.2	42.4	48.0	2 above	42	+ 9	0.	-13	341	+113	232	-202
	7. ENGLAND, N.W.	62	34	54.6	39.6	46.8	0 (average)	44	+ 9	7	- 4	342	+112	214	-222
	8. ENGLAND, S.W.	61	31	54.4	40.5	47.1	0 (average)	42	+ 1	4	- 3	416	+ 84	205	-144
	9. IRELAND, NORTH	68	29	55.3	42.3	48.5	2 above	46	+ 9	0.	-10	405	+112	219	-156
	10. IRELAND, SOUTH	67	30	55.1	43.0	48.8	1 above	48	+ 5	0	- 7	509	+116	165	-121
	-CHANNEL ISLANDS	59	35	56.0	44.4	49.9	1 above	55	+10	0	- 1	581	+164	55	- 93

DISTRICTS. (See p. 92.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	10ths of in. 4	2 less	91	+15	21.8	+ 6.2	19	-14	18	-15	272	+12	24	+ 2
	1. SCOTLAND, EAST	3	3	2 less	65	+ 6	6.8	- 1.9	20	-12	20	-13	324	+24	29	+ 2
	2. ENGLAND, N.E.	1	less than 1	4 less	54	- 3	4.7	- 2.0	30	+ 6	30	+ 6	332	+44	30	+ 4
	3. ENGLAND, EAST	0	—	4 less	47	- 9	4.2	- 2.3	47	+ 7	48	+ 7	367	+18	31	+ 2
	4. MIDLAND COUNTIES	0	—	4 less	47	- 6	3.9	- 3.5	43	+12	44	+10	335	+31	29	+ 2
Principal Grazing, &c., Districts.	5. ENGLAND, SOUTH	0	—	4 less	43	- 9	4.0	- 4.1	45	+ 8	46	+ 8	353	+19	32	+ 2
	6. SCOTLAND, WEST	4	3	2 less	77	+14	13.0	- 2.2	25	-14	25	-16	327	+40	30	+ 4
	7. ENGLAND, N.W.	2	2	2 less	60	+ 2	9.5	+ 0.4	37	+ 5	37	+ 5	375	+97	34	+ 8
	8. ENGLAND, S.W.	2	3	2 less	58	0	7.7	- 3.7	49	+ 7	50	+ 6	416	+31	35	+ 2
	9. IRELAND, NORTH	5	9	5 more	77	+10	10.5	- 0.1	23	0	33	0	338	+42	29	+ 3
	10. IRELAND, SOUTH	4	13	7 more	57	- 4	10.3	- 1.5	28	-10	28	-12	366	+12	32	+ 1
	- CHANNEL ISLANDS	3	5	1 more	67	+ 2	5.6	- 4.3	58	+11	59	+11	462	+37	39	+ 3

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this week was generally fair and very dry over England, although rain fell at some of the southern and south-western stations on the 20th. In Scotland, however, the conditions were less settled, while in Ireland rain was frequent and sometimes heavy.

Temperature was a little above the mean in Scotland, Ireland, and the Channel Islands, and just equal to the normal over the western and north-eastern parts of England, but rather below it over eastern, central, and southern England. The highest of the maxima were recorded on the 17th over England, on the 21st in Ireland, and on various dates in Scotland; they ranged from 68° in Ireland N., 67° in Ireland S., and 66° in Scotland N., to 60° in England N.E., and to 59° in the Channel Islands. The lowest of the minima, which were recorded during the latter part of the week, ranged from 27° in the Midland Counties, 28° in England E., and 29° in Ireland N., to 34° in Scotland W. and England N.W., and to 35° in the Channel Islands. Sharp ground frosts were very general at the inland stations during the latter half of the week.

Rainfall considerably exceeded the mean in Ireland, and, to a much smaller extent, in the Channel Islands also. In all other parts of the Kingdom there was a deficit. Over the greater part of England the week was rainless.

Bright Sunshine was very deficient in Scotland, as well as the south of Ireland, but over England the mean was exceeded very generally. The percentage of the possible duration ranged from 59 in the Channel Islands, and from 50 in England S.W., to 28 in Ireland S., and to between 18 and 25 in Scotland.

Barometer and Wind.—During the earlier days of the week "V"-shaped depressions appeared over our western districts from the Atlantic, causing Southerly winds, shifting to West and North-West, over all our western coasts. By the 20th these systems had dispersed, and during the remainder of the week an anticyclone existing over Scandinavia extended south-westwards to our south-eastern districts. Depressions continued to skirt our western and north-western coasts, but they were of little depth, and the Southerly and South-Easterly winds which accompanied them were light or moderate in force. In the south-east and south the winds were generally light from the Eastward or North-Eastward throughout the period.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
										Inches.	Inches.					
0. SCOTLAND, N.	Sumburgh Head	49	36	46.7	39.4	42.9	+ 0.8	17	7	1	0.03	- 0.40	*	*	*	*
	Stornoway	62	33	52.3	40.6	46.2	+ 2.4	35	4	4	1.03	+ 0.48	32.4	- 4.4	32	- 5
	Wick	55	40	49.4	41.7	45.4	+ 1.6	25	1	1	0.10	- 0.30	*	*	*	*
	Lairg	66	33	54.3	38.8	46.2	+ 2.6	43	9	2	0.56	+ 0.04	*	*	*	*
	Glencarron	66	39	57.0	40.7	48.5	+ 4.8	51	4	3	0.41	- 0.49	*	*	*	*
	Fort Augustus	61	33	54.3	40.9	47.3	+ 1.8	42	3	4	0.29	- 0.19	12.4	- 14.5	12	- 15
	Fort William	59	33	54.0	43.6	48.6	+ 2.7	46	0	5	0.54	- 0.25	17.0	- 16.5	17	- 17
1. SCOTLAND, E.	Nairn	61	35	55.4	39.4	47.0	+ 2.1	46	7	2	0.34	+ 0.05	*	*	*	*
	Aberdeen	55	40	48.0	41.0	44.3	- 0.9	20	3	4	0.32	- 0.12	14.3	- 21.6	14	- 22
	Braemar	61	33	49.1	37.2	42.9	+ 1.5	26	13	3	0.29	- 0.23	14.3†	- 17.2†	14†	- 18†
	Ochertyre	65	35	56.6	40.1	48.0	+ 2.9	50	5	4	0.38	- 0.10	*	*	*	*
	Leith	62	39	55.9	40.9	48.0	+ 2.2	47	3	2	0.13	- 0.17	*	*	*	*
	Marchmont	60	33	54.9	37.0	45.5	+ 1.7	46	14	1	0.12	- 0.37	33.5	+ 1.0	34	0
2. ENGLAND, N.E.	Alnwick Castle	53	34	49.6	38.3	43.6	+ 0.1	27	10	2	0.08	- 0.34	*	*	*	*
	Durham	60	33	54.9	36.7	45.4	+ 0.9	46	15	2	0.01	- 0.39	40.8	+ 12.1	41	+ 12
	Shields	58	36	50.3	39.3	44.5	+ 0.2	29	8	2	0.06	- 0.31	*	*	*	*
	Scarborough	57	35	48.7	38.5	43.4	- 1.6	25	10	0	—	- 0.40	26.0	?	26	?
	York	60	35	53.9	38.1	45.6	- 0.9	42	11	0	—	- 0.37	33.9	+ 1.8	34	+ 1
	Spurn Head	53	40	48.6	41.4	44.8	- 0.2	22	2	0	—	- 0.28	*	*	*	*
3. ENGLAND E.	Hillington	61	29	54.1	34.1	43.6	- 3.0	44	22	0	—	- 0.38	47.3	+ 11.7	48	+ 11
	Yarmouth	49	39	47.3	40.4	43.7	- 1.5	19	4	1	0.02	- 0.33	*	*	*	*
	Geldeston	56	30	49.3	36.1	42.4	- 3.6	28	17	0	—	- 0.32	36.0	- 2.6	37	- 3
	Cambridge	64	30	58.7	32.6	45.0	- 2.7	60	26	0	—	- 0.35	54.4	+ 17.6	56	+ 18
	Rothamsted	60	28	54.4	33.7	43.6	- 2.8	46	23	1	0.04	- 0.44	37.7	+ 2.9	38	+ 2
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	62	29	58.0	34.0	45.4	- 1.6	5	22	0	—	- 0.33	*	*	*	*
	Loughborough	62	29	57.7	35.1	45.9	- 1.6	56	19	0	—	- 0.37	*	*	*	*
	Stamford (Duddington)	62	30	57.1	34.6	45.3	- 1.9	54	21	0	—	- 0.38	*	*	*	*
	Cheadle	57	33	52.9	36.7	44.4	- 0.9	39	15	0	—	- 0.42	*	*	*	*
	Shirley (near Solihull)	58	30	55.3	34.4	44.4	- 2.3	49	21	0	—	?	*	*	*	*
	Churchstoke	59	32	55.5	35.2	44.9	- 0.2	49	19	1	0.04	- 0.34	38.9	+ 4.8	39	+ 4
	Hereford	61	33	58.3	36.8	47.3	+ 0.4	59	15	1	0.06	- 0.32	*	*	*	*
	Cirencester	59	27	54.7	31.7	42.7	- 3.2	48	29	0	—	- 0.44	52.4	+ 16.4	53	+ 15
	Oxford	61	29	55.3	35.1	44.7	- 3.0	48	19	1	0.01	- 0.36	44.6	+ 9.4	46	+ 9
5. ENGLAND, S.	London	64	34	58.1	39.0	48.1	- 0.6	55	8	0	—	- 0.39	35.0†	+ 5.0†	36†	+ 5†
	North Foreland	52	40	48.9	41.9	45.2	+ 0.2	23	0	0	—	?	*	*	*	*
	Cranley	59	31	54.7	34.4	44.1	- 3.6	47	21	0	—	?	*	*	*	*
	Dungeness	55	36	51.9	40.7	46.0	- 1.1	33	4	0	—	- 0.35	*	*	*	*
	Hastings (St. Leonards)	54	37	51.4	39.3	45.1	- 2.7	33	8	0	—	- 0.39	51.9	+ 10.9	53	+ 10
	Southampton	61	34	56.4	37.2	46.3	- 2.7	50	13	1	0.03	- 0.49	44.5	+ 4.7	45	+ 3
	Hurst Castle	57	34	54.1	39.0	46.2	- 1.6	42	8	1	0.05	- 0.30	*	*	*	*
	Shaftesbury	57	34	53.4	37.5	45.1	- 1.5	41	13	1	0.04	- 0.56	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	61	39	54.8	43.2	48.7	+ 2.1	47	0	5	0.70	- 0.09	*	*	*	*
	Glasgow	59	42	55.3	44.2	49.5	+ 3.9	53	0	5	0.19	- 0.21	9.4	- 20.6	9	- 22
	Ardrossan	57	42	52.0	44.4	48.0	+ 1.9	42	0	5	0.22	- 0.18	*	*	*	*
	Glenlee	58	34	54.3	38.0	45.8	+ 0.7	43	11	3	0.33	- 0.23	*	*	*	*
	Gilcrux (Cumberland)	60	40	56.1	42.2	48.8	+ 4.0	48	0	2	0.11	?	31.9	?	32	?
	Douglas (Isle of Man)	56	38	52.5	42.5	47.3	+ 1.2	37	0	3	0.17	- 0.31	34.2	- 7.8	34	- 10
7. ENGLAND, N.W.	Stonyhurst	56	35	53.2	37.9	45.2	- 0.7	40	11	1	0.11	- 0.39	33.7	- 0.1	34	- 1
	Blackpool	60	35	56.4	37.4	46.4	- 0.2	50	13	1	0.13	- 0.19	39.9	+ 6.9	40	+ 5
	Manchester (Prestwich)	58	34	53.5	37.3	45.0	- 0.9	41	13	2	0.05	- 0.35	25.3	?	25	?
	Liverpool Obsy. (Bidston)	59	36	54.7	38.7	46.3	- 1.3	44	9	1	0.02	- 0.28	*	*	*	*
	Llandudno	62	40	55.6	42.3	48.6	+ 0.8	46	0	2	0.41	+ 0.03	44.2	+ 9.4	45	+ 9
	Holyhead	57	42	54.4	44.0	49.0	+ 1.5	49	0	2	0.16	- 0.22	*	*	*	*
8. ENGLAND, S.W.	Llandovery	61	31	58.1	37.3	47.2	+ 0.5	56	13	2	0.30	- 0.23	*	*	*	*
	Pembroke	52	43	51.1	44.7	47.8	+ 1.0	41	0	2	0.20	- 0.18	43.6	+ 0.7	44	0
	Clifton	59	37	57.2	39.5	47.9	+ 1.0	52	7	1	0.06	- 0.39	*	*	*	*
	Arlington (N. Devon)	57	33	55.4	37.3	45.9	+ 0.1	47	13	2	0.89	+ 0.83	*	*	*	*
	Cullompton	59	31	55.7	37.8	46.3	- 2.1	48	12	1	0.17	- 0.43	45.6	+ 9.0	47	+ 9
	Falmouth	56	40	53.5	43.4	48.2	0.0	43	0	2	0.19	- 0.49	53.1	+ 10.5	55	+ 10
	Plymouth	56	36	53.5	41.3	47.1	- 2.0	39	2	2	0.20	- 0.29	47.5	+ 6.5	49	+ 6
9. IRELAND, N.	Prawle Point	52	39	50.7	42.4	46.4	- 0.7	31	0	1	0.28	- 0.12	*	*	*	*
	Malin Head	63	39	53.6	44.4	48.8	+ 2.2	48	0	5	0.82	?	*	*	*	*
	Londonderry	68	35	57.9	42.9	50.0	+ 2.4	56	0	6	1.21	+ 0.77	*	*	*	*
	Edenfel (Omagh)	65	29	55.7	41.1	48.1	+ 2.6	46	3	4	1.23	+ 0.78	*	*	*	*
	Belmullet	57	40	53.7	44.1	48.7	+ 0.7	47	0	4	0.99	+ 0.49	*	*	*	*
	Markree Castle	65	29	56.0	41.3	48.3	+ 2.9	47	2	6	1.00	+ 0.54	29.2	- 5.3	29	- 7
	Armagh	62	32	56.2	41.5	48.5	+ 2.6	48	1	5	0.92	+ 0.42	36.1	+ 3.1	36	+ 2
10. IRELAND, S.	Donaghadee	54	37	51.7	43.6	47.5	+ 1.4	39	0	4	0.46	- 0.07	*	*	*	*
	Edgeworthstown	64	29	57.6	39.4	48.1	+ 1.4	54	7	6	0.83	+ 0.31	*	*	*	*
	Dublin	61	42	56.3	44.7	50.2	+ 2.4	57	0	5	0.79	+ 0.34	23.0	- 15.7	23	- 17
	Parsonstown	67	30	57.3	41.1	48.8	+ 1.9	61	3	5	1.21	+ 0.76	34.8	- 1.2	35	- 3
	Kilkenny	62	36	54.0	42.3	47.9	+ 0.3	41	0	4	0.97	+ 0.48	*	*	*	*
	Roche's Point	58	40	53.6	44.6	48.9	+ 0.3	48	0	4	1.44	+ 0.72	*	*	*	*
	Valencia	58	34	53.7	44.3	48.8	- 0.2	48	0	4	2.13	+ 1.25	25.3	- 14.6	26	- 16
CHANNEL ISLANDS	Killarney	61	31	56.1	43.6	49.6	+ 1.6	53	0	4	1.85	?	*	*	*	*
	Foynes	63	34	54.8	40.5	47.3	- 0.4	43	4	3	0.79	?	*	*	*	*
	Scilly (St. Mary's)	57	42	55.3	46.4	50.6	+ 1.8	60	0	3	0.40	+ 0.02				

* An Asterisk is inserted in all places for which the information is not usually received.
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 17th April.

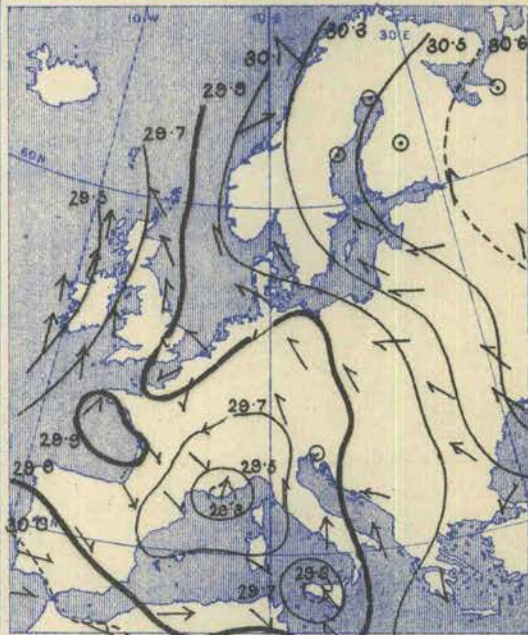
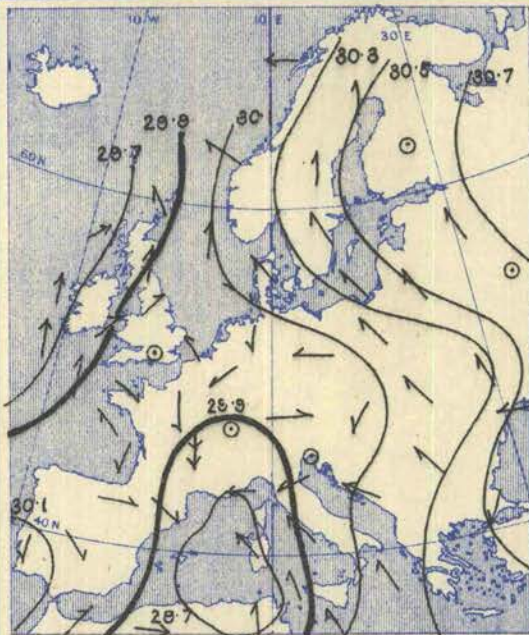
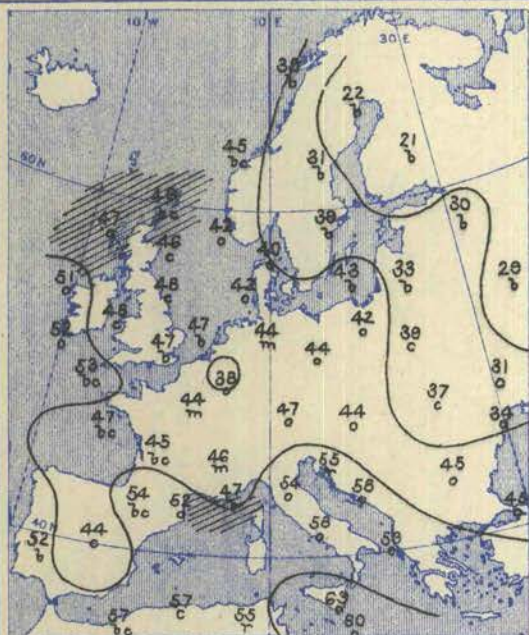
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine in most parts of Great Britain, but dull in Ireland and the west of Scotland. Fine over the Spanish Peninsula and the west of France, as well as at most of the Russian and Scandinavian stations; cloudy or dull in other parts of the Continent, with rain in the extreme south of France and also at Trieste and La Calle. Considerable amounts of rain falling later in Ireland, and still larger quantities over the south of France and northern Italy—as much as 2.5 ins. at Turin and 2.3 ins. at Nice.

Temperature fallen over the greater part of France and the Netherlands but risen in most other countries. Morning readings highest, 69° at Palermo and Tunis, 60° at Malta and 58° at Rome, Lesina, Brindisi and Oran; above 55° at many of the Mediterranean and Adriatic stations. Lowest, 21° at Kuopio, 22° at Haparanda, 27° at Kharkov and 29° at Hango, Helsingfors and Moscow. Rising during day to 60° and upwards over the inland parts of England, but remaining below that point at most of the French stations. Exceeding 60° over Spain, Italy and Austria, reaching 70° at Rome and Naples, and 84° at Palermo. Ground frost occurring over central England at night.

Wind Southerly over the greater part of our Islands, and strong in force on our extreme north-west coasts, but calm or Easterly in the south-east of England. Light to moderate from the Eastward or South-Eastward over northern and eastern Europe, and also in Italy; North-Easterly or Northerly over France, with a gale at Lyons and Nice; North-Westerly in Spain. Subsequently increasing to a moderate gale from the Southward in Ireland; strong Southerly winds setting in over Italy.

Barometer highest, 30.6 ins. and upwards in a large anticyclone over Russia; 30.1 ins. and upwards in another system lying off the Portuguese coasts. Lowest, 29.7 ins. and less in a depression lying to the westward of our Islands, and also in another disturbance over the Mediterranean, between the French and Algerian coasts. Depression off our western coasts subsequently spreading eastwards. Mediterranean disturbance becoming deeper and very complex; centres of well-marked depressions appearing near Toulon and Palermo.

Monday, 18th April.

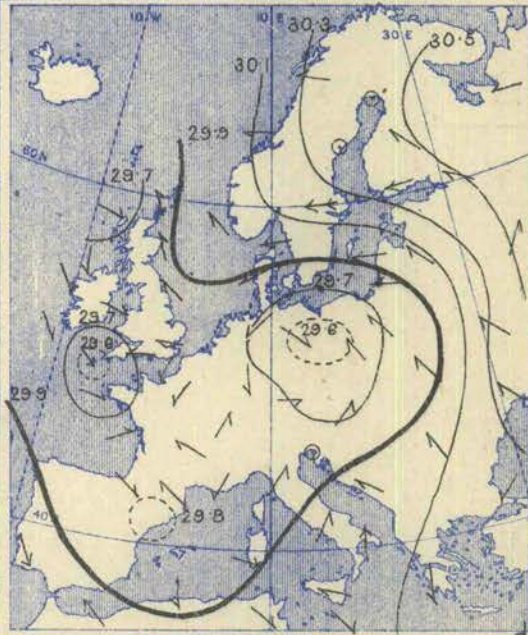
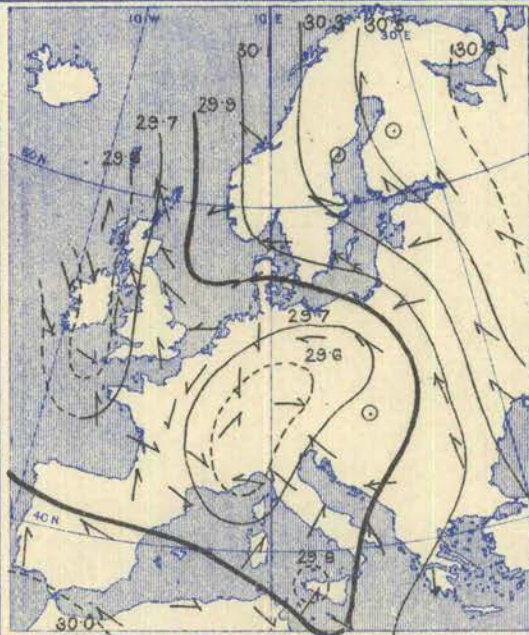
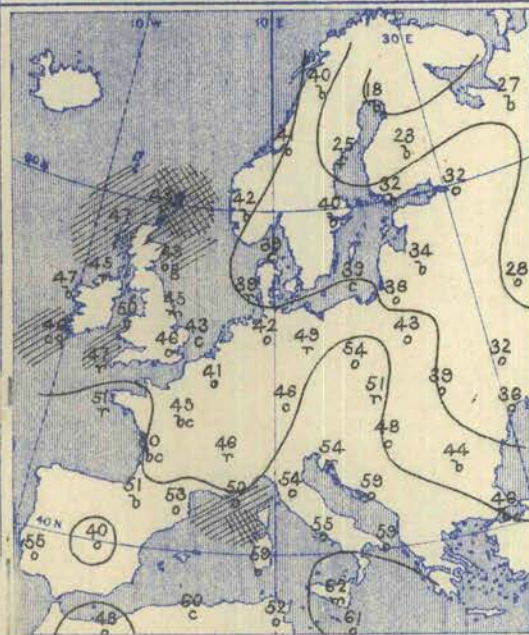
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine at some of the English stations, as well as in the north and west of France, Scandinavia and northern Russia. Cloudy or dull elsewhere, with rain at many of our own western stations, as well as over central France, northern Italy, Denmark and north Germany, and snow at Copenhagen. A little rain falling later in the south-west and extreme north of our Islands, and larger quantities at some of the western French stations.

Temperature fallen a little over the greater part of north-western, northern and central Europe, but risen elsewhere. Morning readings highest, 62° at Palermo, 61° at Barcelona and Malta, and 60° at Algiers, above 55° at the Mediterranean and Adriatic stations generally. Lowest, 18° at Haparanda, 22° at Kuopio, 25° at Helsingfors, and 27° at Archangel. Rising during day to 55° and upwards at many of the English stations, and to 62° at Leith; exceeding 60° over southern Europe generally, and reaching 70° at Brindisi, and 72° at Palermo.

Wind Southerly or South-Easterly over Great Britain, and strong in force in the north of Scotland, but North-Westerly in Ireland. Easterly over Scandinavia, Denmark, north Germany and the Baltic, with a gale at Wisby; North-Easterly over the Netherlands; Northerly or North-Westerly in France; Southerly in Italy; South-Easterly in Austria and Russia. Variable over the Spanish Peninsula. Subsequently shifting to the Westward or North-Westward on the west coasts of Great Britain; no decided change occurring elsewhere.

Barometer highest, 30.6 ins. over Russia; 30.1 ins. and upwards in an anticyclone extending thence over Scandinavia. Lowest, 29.6 ins. and less in a "V-shaped" depression over our own western coasts, and also in another disturbance over southern Germany, Switzerland, and the south-east of France. Western depression subsequently breaking into two portions—one passing away to the northward, and the other moving south-eastward over the western part of the English Channel. Continental disturbance moving north-eastwards to western Germany.

Tuesday, 19th April.

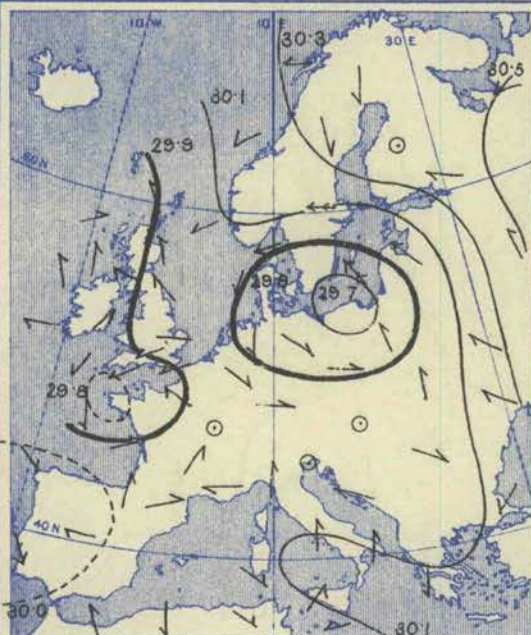
Temperature and Weather.

8 a.m.

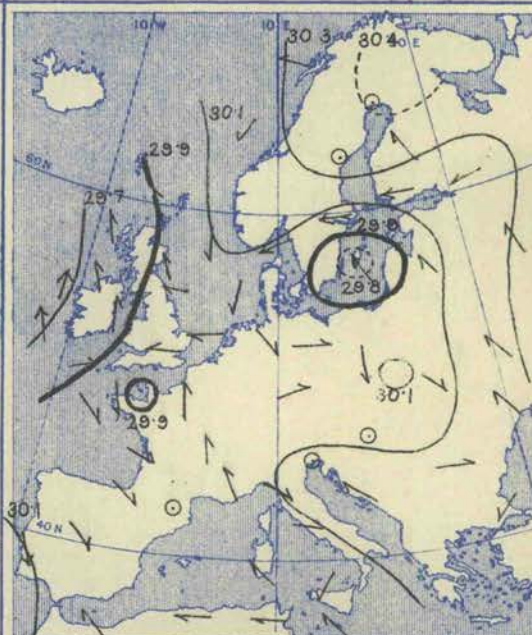


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over Ireland, as well as over the northern parts of Russia and Scandinavia and the greater part of southern Europe. Cloudy or dull elsewhere, with rain at some of the Scotch stations, and also at Copenhagen and Berlin; snow falling over the south of Scandinavia, the north of Denmark and the Baltic provinces, as well as at St. Petersburg. Rain falling later in the west of our Islands generally, and the east of Scotland, as well as in several parts of France, Germany and the Netherlands; thunderstorms occurring at Lyons.

Temperature fallen a little in most places. Morning readings highest, 64° at Patras and La Calle and 61° at Barcelona, Malta, Algiers and Sfax, above 55° at the Mediterranean and Adriatic stations generally. Lowest, 20° at Haparanda, 28° at Kuopio and 30° at Hernösand and Moscow. Rising during day to 55° and upwards in many parts of the United Kingdom, to 60° and upwards at several of the French stations, and to 65° and upwards in Italy, the highest reading of all being 72° at Palermo. Frost occurring at night in inland parts of the east of England.

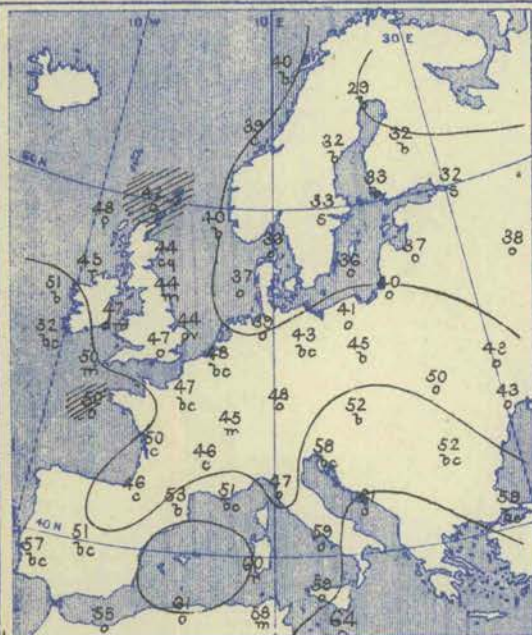
Wind light to moderate from the Eastward over England and the north of France, but Westerly or South-Westerly over the southern parts of France; variable in Ireland, but Southerly in Scotland and strong in force at Wick. Varying between East and North over northern Europe generally, and blowing with the force of a gale in the south of Sweden; light to moderate from the Westward in Germany; South-Easterly over the central parts of Russia. Light from the Southward in Italy, variable in Spain, North-Westerly in Portugal. Subsequently shifting to the Southward in Ireland and blowing freshly.

Barometer highest, 30.5 ins. and upwards over Russia, 30.1 ins. and upwards in an anticyclone extending thence over the northern parts of Scandinavia and also over Turkey, Greece and southern Italy. Lowest, 29.7 ins. and less in a well-marked depression with its centre close to Neufahrwasser; 29.9 ins. and less in a shallow system over Brittany and the western part of the English Channel. Latter disturbance subsequently moving eastwards and filling up; new and larger depression appearing off our extreme west coasts in evening. German depression moving northwards over the Baltic.

Wednesday, 20th April.

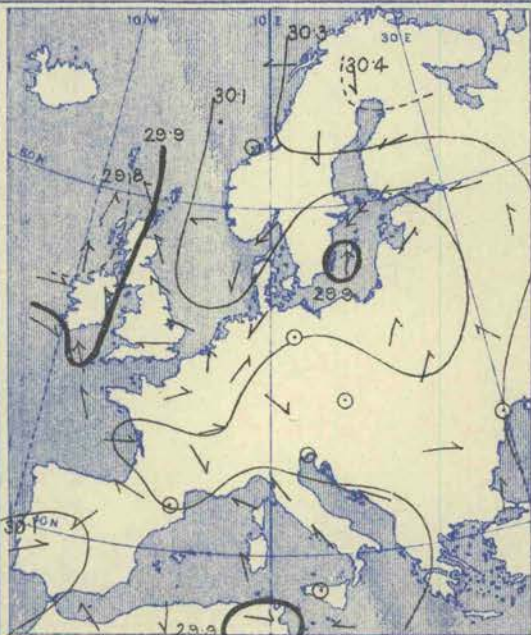
Temperature and Weather.

8 a.m.

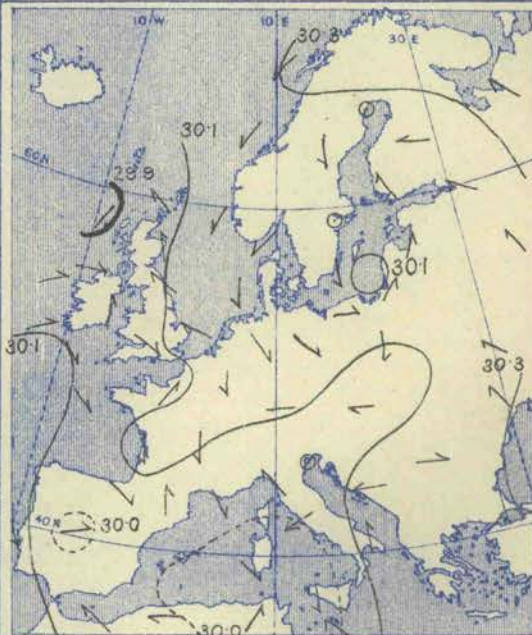


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over western and central Europe as a whole, but dull in places, with rain in Wales and the north of Ireland. Dull in Italy and also over Russia, Denmark, the Baltic and the south of Sweden, with snow at St. Petersburg, Helsingfors, Stockholm and Faerder. Rain falling later in several parts of the United Kingdom and the neighbouring parts of the Continent, but amounts mostly slight.

Temperature risen a little in most places. Morning readings highest, 64° at Malta, and 61° at Lesina, Barcelona, Algiers and Sfax; above 55° at the Mediterranean, Adriatic and Spanish coast stations generally, and above 50° in some parts of Ireland and Scotland. Lowest, 24° at Uleaborg, 29° at Haparanda and 32° at Hernösand, Helsingfors and St. Petersburg. Rising during day to 55° and upwards in several parts of the United Kingdom, and to 62° in London. Exceeding 60° also over the greater part of France, and exceeding 70° over central Spain and southern Italy, the highest reading of all being 86° at Palermo.

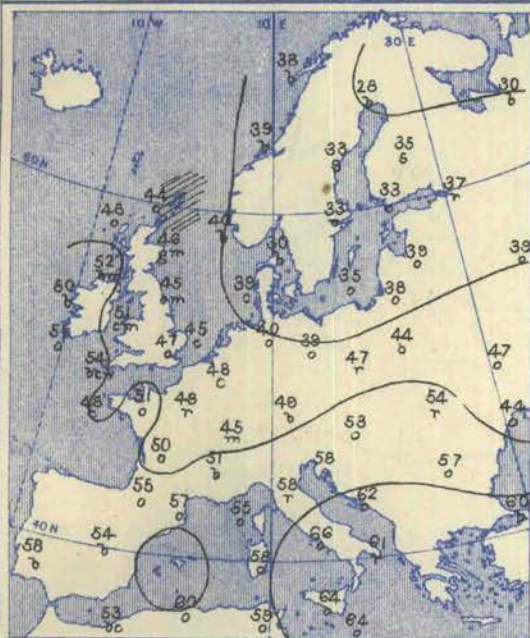
Wind moderate to strong from the Southward in the west and north of our Islands generally, but North-Westerly in the south of Ireland; light to moderate from the Eastward over the greater part of England. Easterly to Northerly over Scandinavia, Denmark and northern Russia, with a gale at Stockholm; North-Westerly at many of the German stations. South-Westerly over the Baltic Provinces; Southerly or South-Easterly over the central and southern parts of Russia. Calm in Austria, variable in Spain, Italy and the south of France. Subsequently shifting to the North-Westward over the Bay of Biscay and the mouth of the Channel; becoming variable in the south of England.

Barometer highest, 30.4 ins. and upwards over Lapland; 30.3 ins. and upwards in the south of Russia; 30.1 ins. and upwards over the south-western parts of the Spanish Peninsula. Lowest, 29.8 ins. and less in a depression off the west of Scotland; 29.9 ins. and less in a small secondary system near the mouth of the St. George's Channel, and also in two other disturbances lying respectively over the Baltic and over Tunis. Depressions partially filling up later and barometer rising over western Europe generally.

Thursday, 21st April.

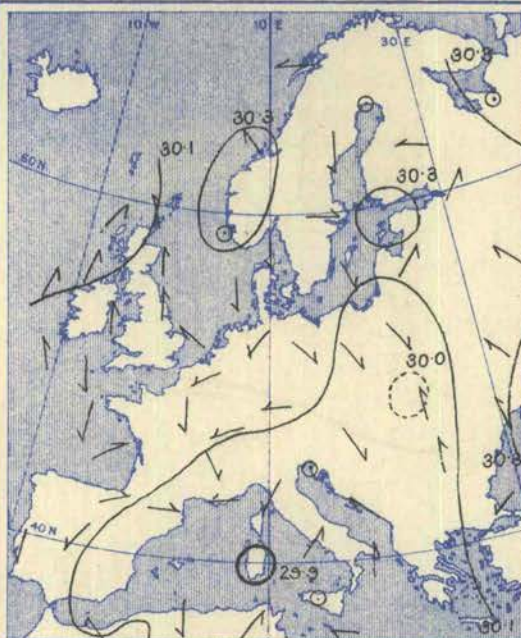
Temperature and Weather.

8 a.m.

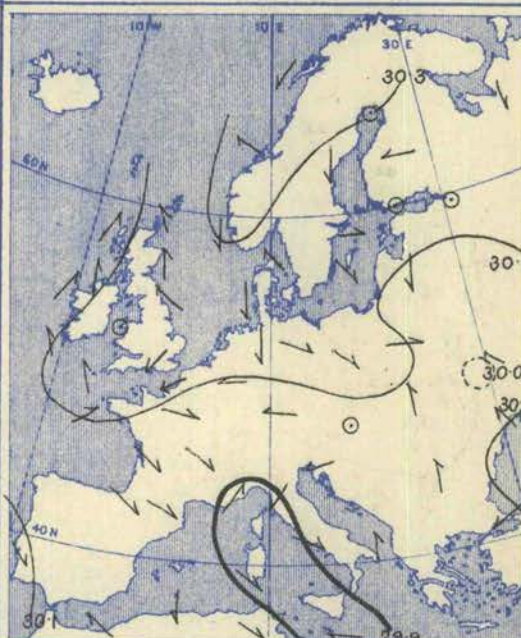


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over a considerable portion of our Islands and the Continent with passing showers at Jersey, and steady rain at Paris, as well as in northern Italy, eastern Germany and several parts of western Russia; snow falling at Kuopio and Hernösand. Fine in Ireland and the south-west of England, as well as over Norway, Denmark and the Spanish Peninsula. Sky clearing later in many parts of Great Britain, considerable quantities of rain falling in northern Italy and the neighbouring parts of Austria.

Temperature risen in most places. Morning readings highest, 66° at Naples, 64° at Barcelona, Palermo and Malta, 63° at Constantinople and 62° at Lesina; above 55° over southern Europe generally. Lowest, 28° at Haparanda, 30° at Archangel and 33° at Hernösand, Stockholm and Hangö; below 40° in most parts of northern Europe. Rising during day to between 55° and 60° in many parts of the United Kingdom, and to 67° at Parsonstown; exceeding 60° also at most of the French stations, and exceeding 70° in Spain and southern Italy. Sharp ground frost occurring over central England at night.

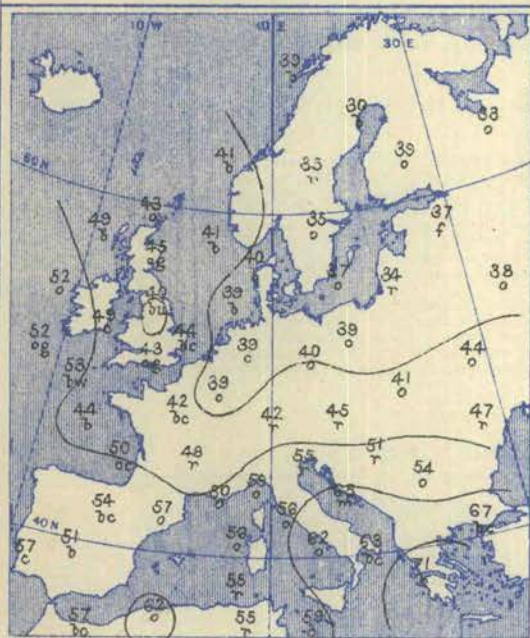
Wind light to moderate from the Northward over Sweden and Denmark, and from the North-Eastward over the Netherlands, the south of England and the north of France; Southerly over Ireland and the northern parts of Great Britain. Easterly in the west of Norway; North-Westerly in Germany and Austria, but South-Easterly at most of the Russian stations. Southerly or South-Westerly over southern Italy; Easterly over northern Italy and the extreme south of France; North-Easterly or Northerly over the Spanish Peninsula, North-Westerly breezes setting in later over France; no important change occurring elsewhere.

Barometer highest, 30.3 ins. and upwards in the west of Norway and the northern and southern parts of Russia; 30.1 ins. and upwards in an anticyclone of irregular form embracing a considerable portion of Europe. Lowest, 29.9 ins. and less in a depression over Sardinia, 30.0 ins. and less in a shallow system over Galicia. Sardinian disturbance subsequently moving slowly northwards; barometer falling a little in most parts of western Europe.

Friday, 22nd April.

Temperature and Weather.

8 a.m.

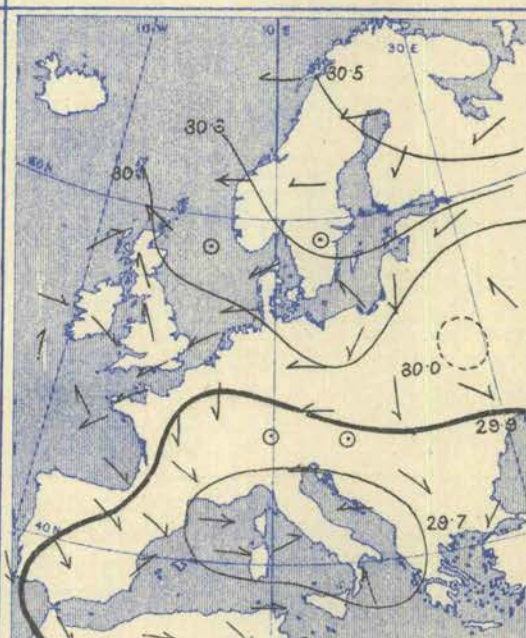


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair and dry over western Europe as a whole, but with a good deal of cloud in places. Dull in most of the eastern, central and southern countries, with rain over Austria and the southern parts of France, Germany and Russia, as well as at Hernösand; snow falling at Karlstad. Rain falling later in many parts of Ireland and Scotland, and large quantities over northern Italy.

Temperature fallen in our Islands and also in France, Spain and Austria, changed irregularly elsewhere. Morning readings highest, 71° at Patras, 67° at Athens and Constantinople and 65° at Lesina; above 55° at most of the Mediterranean, Adriatic and Spanish coast stations. Lowest, 30° at Haparanda, 33° at Archangel and 34° at Hangö and Riga. Rising during day to 55° and upwards at several of our own western and northern stations, and to 62° at Stormöy, but remaining below 50° on our east and south-east coasts. Exceeding 60° in the west and south of France, and exceeding 70° in some parts of Spain and southern Italy. Sharp frost occurring over the inland parts of England at night.

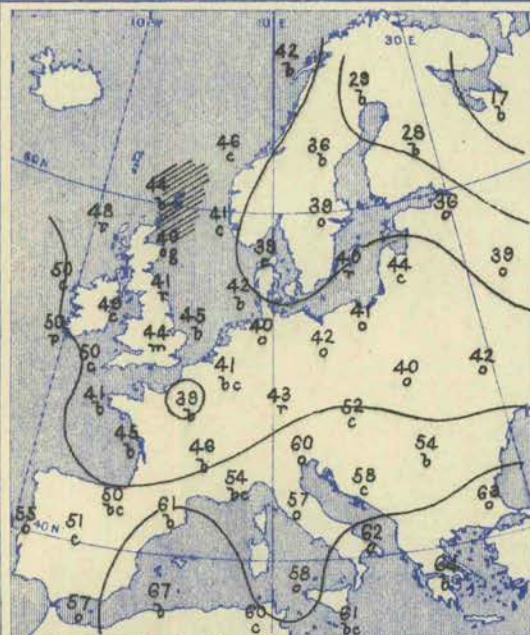
Wind light to moderate from the North-Eastward or Eastward over the southern parts of England, and the northern and central parts of the Continent generally, North-Westerly in the south of France, variable in Italy, South-Easterly at the Adriatic stations. Southerly in Ireland and also in the north-east of Scotland, calm or variable in the west and south of Scotland. Subsequently veering to the South-Westward in Ireland, no important change occurring elsewhere.

Barometer highest, 30.4 ins. and upwards over the northern parts of Scandinavia; 30.1 ins. and upwards in an anticyclone embracing the whole of northern Europe and extending westwards over the greater part of our Islands. Lowest, 29.8 ins. and less in a depression over Italy and the south-east of France; 30.0 ins. and less in a large shallow area over the central and southern parts of Russia. Italian depression subsequently spreading northwards, but another disturbance appearing over the east of Spain; shallow low-pressure area moving northwards along our own western coasts.

Saturday, 23rd April.

Temperature and Weather.

8 a.m.

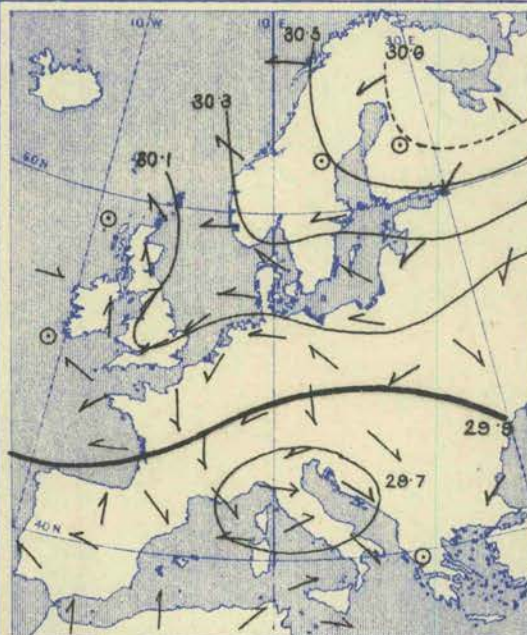


Weather in morning fine in Spain, France, the Netherlands and the south and east of England, as well as in the northern parts of Russia and Scandinavia and in Greece. Cloudy or dull elsewhere, with rain at many stations in Ireland and the northern parts of Great Britain, as well as at Wisby, Munich, Turin and Florence. Rain falling later in the west and north of our Islands generally, but amount slight as a rule.

Temperature fallen in the western and northern parts of the United Kingdom and also in France and Italy, risen in most other localities. Morning readings highest, 67° at Algiers, 64° at Athens and Patras, and 63° at Constantinople; above 55° in most parts of southern Europe. Lowest, 17° at Archangel, 23° at Kuopio, 29° at Haparanda and 32° at Uleaborg; below 40° over northern Europe generally, as well as in some parts of central England. Rising during day to between 50° and 55° over our Islands generally and to 58° at Cambridge; exceeding 60° in the west and south of France, and reaching 68° at Perpignan. Sharp ground frost over the inland parts of England at night.

Barometer and Wind.

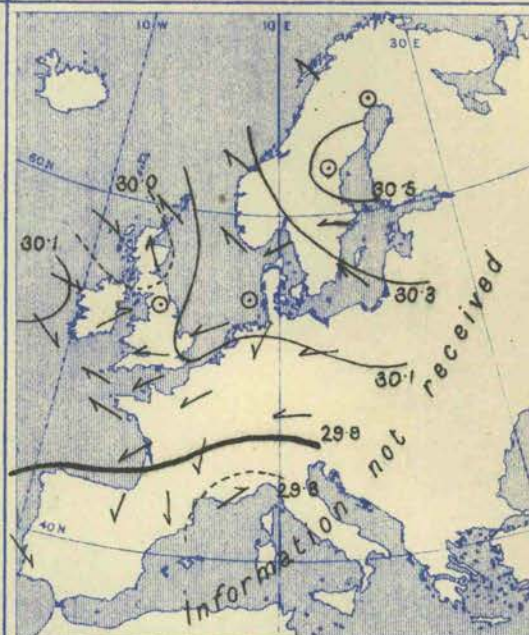
8 a.m.



Wind light to moderate from the North-Eastward or Eastward over the south of England and the greater part of the Continent, but North-Westerly in the south of France and South-Westerly in Italy. Westerly in the north of Ireland, Southerly over the northern parts of Great Britain as a whole, but calm in the west and south of Scotland. North-Westerly winds setting in later over Ireland and the west of Scotland; no important change occurring elsewhere.

Barometer highest, 30.6 ins. and upwards in the extreme north of Russia; 30.1 ins. and upwards in an anticyclone lying over northern Europe generally, and extending over the North Sea and the eastern and central parts of England. Lowest, 29.7 ins. and less in a depression over the northern and central parts of Italy and the neighbouring parts of France and Austria; 30.0 ins. and less in a shallow disturbance over Scotland. No decided change taking place over western Europe during day.

6 p.m.



Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the earlier part of the week the distribution of pressure was very irregular. An anticyclone of considerable height existed over Russia, its borders extending westwards over Scandinavia, while a less clearly defined system was found over or to the south-westward of the Spanish Peninsula. Between the 17th and 18th and again on the 20th the weather in our Islands was affected by two "V-shaped" depressions which spread over our western coasts, but which afterwards broke into two portions—one moving away to the northward and the other to the south-eastward, and each dispersing. These disturbances occasioned strong Southerly winds and rain on many parts of our western and northern coasts, but excepting on the 20th, when local showers occurred over our southern counties, the unsettled weather failed to extend eastwards. Over the southern and central parts of the Continent, the weather between the 17th and 20th was influenced by a depression which moved in a north-north-easterly direction from the Mediterranean across Italy and Germany to the Baltic. The progress of this disturbance was marked at first by heavy rains in northern Italy and the south of France, and afterwards by Easterly gales in the south of Scandinavia, and snow in many parts of northern Europe; in Germany the precipitation was apparently slight.

After the 20th the northern high-pressure system spread south-westwards over the greater part of north-western Europe. In the west and north of our Islands the conditions were still affected by depressions which moved northwards outside our western coasts, while over southern Europe they were influenced by complex low-pressure systems which appeared over Italy and the Mediterranean. In each of these regions the weather therefore remained very unsettled, with considerable quantities of rain in places, and especially over northern Italy on the 22nd. Elsewhere, however, the weather was fair and dry, the wind over England and the greater part of northern and central Europe being mostly from points between North and East. Very sharp ground frosts were experienced over England during the latter part of the week.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 92.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	19.6	?	19	?	WESTBOURNE (Emsworth)	51.1*	+ 8.5	52*	+ 7
STRATHPEFFER SPA	12.2	- 22.2	12	- 23	WATERGATE (Emsworth)	40.5	?	41	?
EDINBURGH	18.9	- 9.6	19	- 10	BRIGHTON	43.5	+ 2.3	44	+ 1
MORPETH	24.8	?	25	?	EASTBOURNE	45.0	+ 4.5	46	+ 4
NEWCASTLE-ON-TYNE	22.8	?	23	?	VENTNOR HOSPITAL	44.7	?	46	?
OSWALDKIRK (Yorkshire)					SOUTHPORT	39.1	?	39	?
SHEFFIELD	34.4	?	35	?	COLWYN BAY	39.2	?	40	?
WORKSOP	40.4	+ 10.4	41	+ 10	TENBY	55.3*	+ 9.8	56*	+ 8
THURCASTON (Leicestershire)	47.4	+ 16.4	48	+ 16	NEWQUAY	52.2	+ 10.5	54	+ 11
HOLLESLEY BAY	58.8	?	60	?	TORQUAY	46.3*	+ 4.1	48*	+ 4
PLUMSTEAD COMMON	30.1	?	37	?	GUERNSEY	51.9*	+ 6.3	54*	+ 6
MARGATE	58.7	+ 22.9	60	+ 23					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH, 88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

Vol. XV. No. 17.]
Third Series.

WEEK ENDING SATURDAY, APRIL 30TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 38.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	61	33	52.7	40.6	46.4	1 above	Day-deg. 37	Day-deg. + 8	Day-deg. 4	Day-deg. - 11	Day-deg. 275	Day-deg. + 86	Day-deg. 359	Day-deg. - 226
	1. SCOTLAND, EAST	61	29	50.4	39.6	44.8	1 below	30	- 6	7	- 8	335	+ 86	386	- 233
	2. ENGLAND, N.E.	59	32	49.8	40.9	45.1	1 below	26	- 7	3	- 7	369	+ 127	323	- 207
	3. ENGLAND, EAST	65	27	55.1	39.6	47.0	1 below	45	- 2	7	- 4	385	+ 70	406	- 189
	4. MIDLAND COUNTIES	61	29	55.4	38.6	46.6	1 below	46	- 2	10	- 2	414	+ 72	395	- 202
	5. ENGLAND, SOUTH	61	31	55.1	42.9	48.7	0 (average)	47	- 4	0	- 5	430	+ 73	234	- 236
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	59	32	53.6	41.9	47.5	1 above	39	0	0	- 9	380	+ 113	232	- 211
	7. ENGLAND, N.W.	61	33	54.0	41.7	47.6	0 (average)	40	- 1	1	- 6	382	+ 111	215	- 228
	8. ENGLAND, S.W.	61	32	55.2	42.0	48.3	0 (average)	44	- 3	0	- 5	400	+ 81	205	- 149
	9. IRELAND, NORTH	61	34	54.6	41.4	47.7	0 (average)	42	- 1	2	- 5	447	+ 111	221	- 161
	10. IRELAND, SOUTH	61	35	55.6	41.8	48.3	1 below	45	- 3	1	- 4	554	+ 113	166	- 125
	- CHANNEL ISLANDS	57	43	55.3	46.4	50.6	0 (average)	60	+ 8	0	0	641	+ 172	55	- 93

DISTRICTS. (See p. 38.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10ths of in. 8	10ths of in. 2 more	95	+ 15	Ins. 22.6	+ 6.5	30	- 6	28	- 8	302	+ 6	24	+ 1	
	1. SCOTLAND, EAST	5	15	11 more	70	+ 7	8.3	- 0.8	14	- 20	13	- 21	338	+ 4	27	0	
	2. ENGLAND, N.E.	5	14	10 more	59	- 2	6.1	- 1.0	10	- 23	10	- 22	341*	+ 16	28	+ 2	
	3. ENGLAND, EAST	5	5	2 more	52	- 8	4.7	- 2.2	23	- 15	23	- 16	390	+ 3	30	0	
	4. MIDLAND COUNTIES	5	8	4 more	52	- 5	4.7	- 3.1	17	- 17	17	- 17	352	+ 14	29	+ 2	
	5. ENGLAND, SOUTH	5	7	3 more	48	- 8	4.7	- 3.8	29	- 9	29	- 10	382	+ 9	32	+ 1	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	7	2 more	80	+ 12	13.7	- 2.0	19	- 19	19	- 20	346	+ 21	29	+ 2	
	7. ENGLAND, N.W.	4	5	2 more	64	+ 2	10.0	+ 0.6	21	- 17	20	- 18	396	+ 80	33	+ 6	
	8. ENGLAND, S.W.	3	7	2 more	61	- 2	8.4	- 3.5	38	- 6	38	- 6	454	+ 25	36	+ 2	
	9. IRELAND, NORTH	4	5	0 (average)	81	+ 9	11.1*	0.0	20	- 5	30	- 5	368	+ 37	29	+ 3	
	10. IRELAND, SOUTH	3	8	2 more	60	- 6	11.1	- 1.3	40	0	40	0	406	+ 12	32	+ 1	
	- CHANNEL ISLANDS	4	6	2 more	71	+ 2	6.2	- 4.1	40	- 15	40	- 17	502	+ 21	39	+ 2	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather was fair and dry during the earlier days of the period, but subsequently became dull and rainy in all parts of the Kingdom, the rain being especially heavy in the north-east of Great Britain. Thunderstorms occurred in several parts of England and in the south of Scotland towards the end of the week.

Temperature did not differ materially from the mean, but was slightly below it in most of the English districts. The highest of the maxima, registered on rather irregular dates, ranged from 65° in England E. to 57° in the Channel Islands. The lowest of the minima were recorded at the beginning or the middle of the period; they ranged from 27° in England E., and 29° in Scotland E., and the Midland counties, to 35° in Ireland S., and to 43° in the Channel Islands.

Rainfall exceeded the mean in nearly all districts, but only just equalled it in Ireland N. In Scotland E. and England N.E. the excess was very large.

Bright Sunshine was very deficient in almost all districts; the percentage of the possible amount

ranged from 40 in Ireland S. and the Channel Islands, and 38 in England S.W., to 17 in the Midland counties, 13 in Scotland E., and to 10 in England N.E.

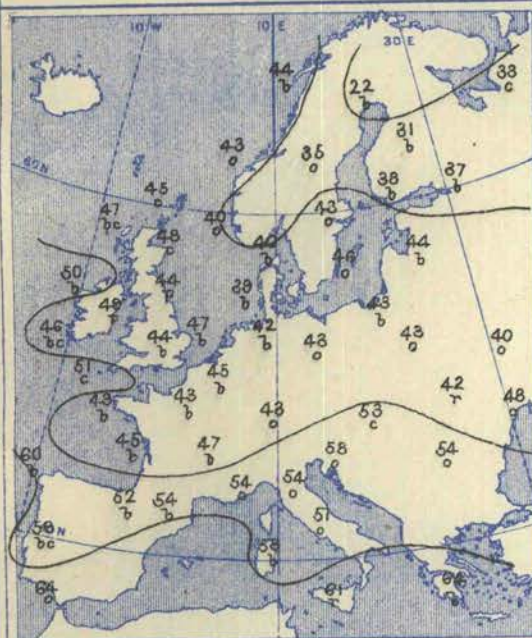
Barometer and Wind.—During the early days of the week the distribution of pressure was mainly anticyclonic, with North-Easterly and Easterly winds in the south, and South-Westerly breezes in the north. After Tuesday, however, depressions began to approach our Islands from the southward and south-westward, and gradually spreading or moving northwards, caused Easterly and South-Easterly winds to become general, and to blow with the force of a gale in the north and north-east. During Saturday a well-defined and rather deep depression travelled quickly northwards over the western parts of Great Britain, and occasioned South-Easterly to South-Westerly gales and strong winds at many of our western and southern stations during the day, and subsequently a Southerly gale in the extreme north of Scotland.

* An Asterisk is inserted in all places for which the information is not usually received.
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 24th April.

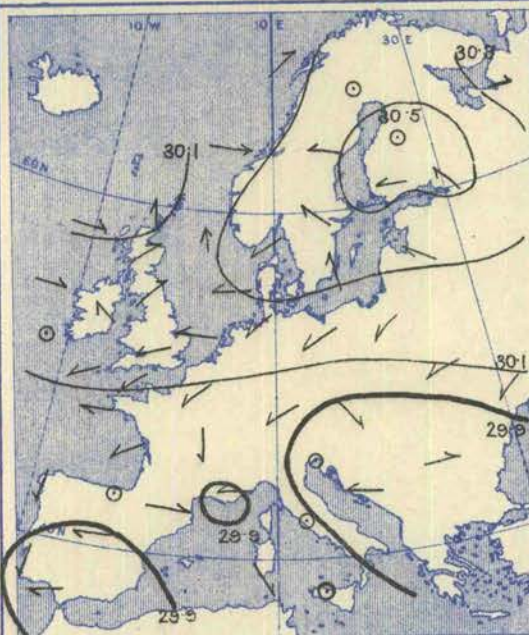
Temperature and Weather.

8 a.m.

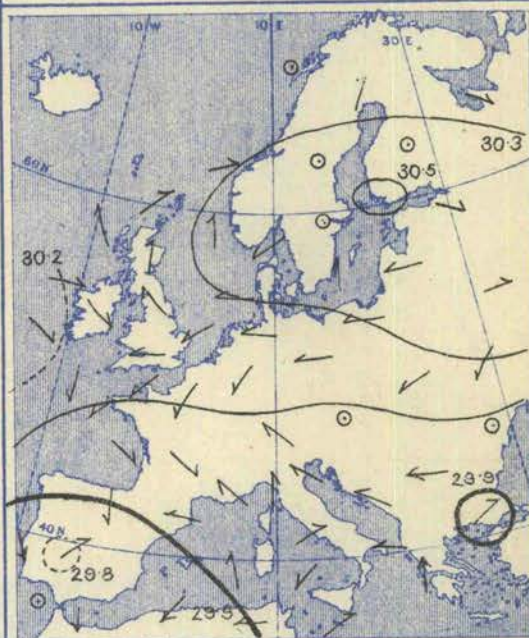


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine generally over the greater part of northern and western Europe, less fair over the south-eastern and southern countries. Slight rain falling later at Bodø and in the north and north-west of the United Kingdom; none over western Europe as a whole but a very considerable fall in the south of Spain and in some parts of Algeria.

Temperatures changed very variably. Morning readings highest, 64° at Patras and San Fernando, 61° at Palermo, and exceeding 50° over the south-eastern and southern parts of Europe generally; 51° at Scilly, as well as at Malin Head, 50° at Ardrossan and Leith. Lowest, (1) 22° at Haparanda, 31° at Kuopio, 37° at St. Petersburg, 39° at Karlstad; (2) 43° at Cambridge, 44° at Loughborough. Rising later to between 55° and 61° in many parts of our Islands, to 65° at Paris, 70° at Perpignan, 73° at Sicily and Algiers. Succeeding night much colder over our Islands.

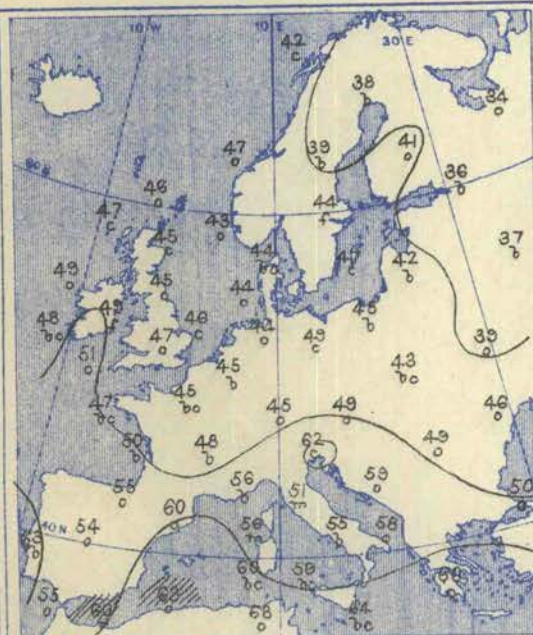
Wind very light everywhere. (1) Anticyclonic over northern Europe and the North Sea; North-Easterly over central Europe and France; cyclonic over the southern countries and the Mediterranean. Becoming cyclonic over our north-western districts later, but not increasing much in force.

Barometer highest, 30.5 ins. and more to 30.2 ins. all over northern Europe, and (in a "ridge") over a great deal of the North Sea, and above 30.1 ins. over almost the whole of the British Islands. Lowest, below 29.9 ins. in a series of large and very shallow depressions lying over south-eastern, southern, and south-western Europe; gradients very uniformly slight. Falling later over Algeria; no decided change over our Islands.

Monday, 25th April.

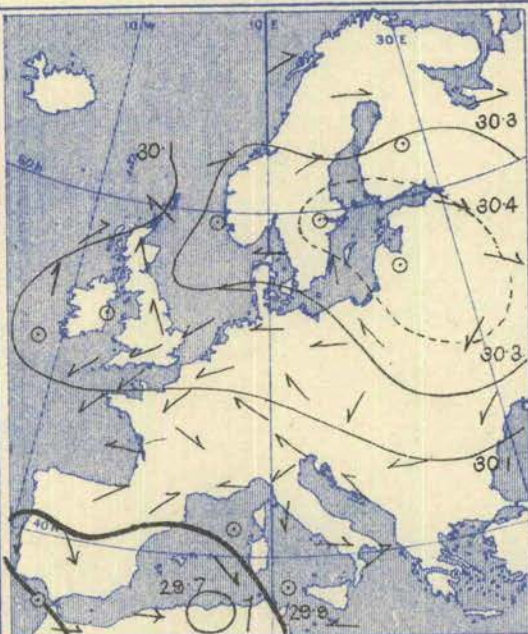
Temperature and Weather.

8 a.m.

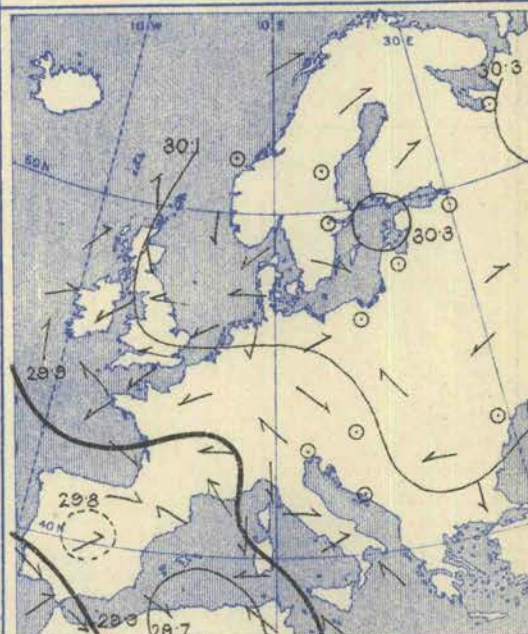


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over western and southern Europe as a whole, but dull at many of the English stations, and foggy at Ardrossan and Holyhead, as well as at Stockholm and Karlstad. Fine over western and central Russia, but dull over Germany, Austria and the south of Russia. Sky clearing later in many parts of England, but a little rain falling at some of the southern French stations, and more at Algiers; no decided change occurring elsewhere.

Temperature risen in the western and northern parts of the Continent, but changed very irregularly elsewhere. Morning readings highest, 68° at La Calle, 66° at Patras, and 64° at Athens and Malta; above 55° over southern Europe generally. Lowest, 34° at Archangel, 35° at Kharkov, 36° at St. Petersburg, and 37° at Helsingfors and Moscow; lowest in our islands, 41° at Oxford and Hurst Castle. Rising during day to 55° and upwards in several parts of the United Kingdom, to 60° at Malin Head, and to 61° at Parsonstown. Exceeding 65° at several of the French and Spanish stations, and reaching 69° at Paris, and 70° at Lisbon; 75° at Madrid and 84° at La Calle and Tunis.

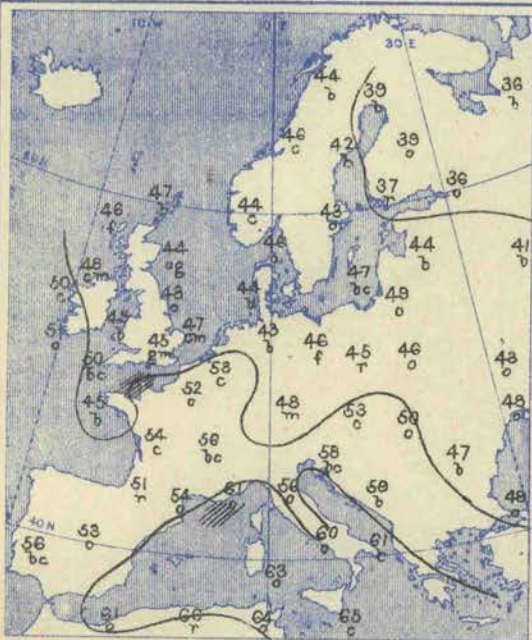
Wind light to moderate from the Eastward or South-Eastward over Denmark, Germany and the Baltic, and from the North-Eastward over the Netherlands, England and the Northern parts of France. South-Westerly in the extreme south of France. Southerly in Ireland and Scotland. South-Westerly over the northern parts of Scandinavia; Westerly in the northern and central parts of Russia. Northerly or North-Westerly over the Spanish Peninsula, variable in Italy; North-Easterly in the south of Russia. No important change occurring over western Europe during day.

Barometer highest, 30.4 ins. and upwards over the western and central parts of Russia; 30.1 ins. and upwards in an anticyclone embracing the extreme northern half of Europe. Lowest, 29.7 ins. and less in a depression lying over Algeria. No important change occurring during day, but barometer falling in nearly all parts of western Europe.

Tuesday, 26th April.

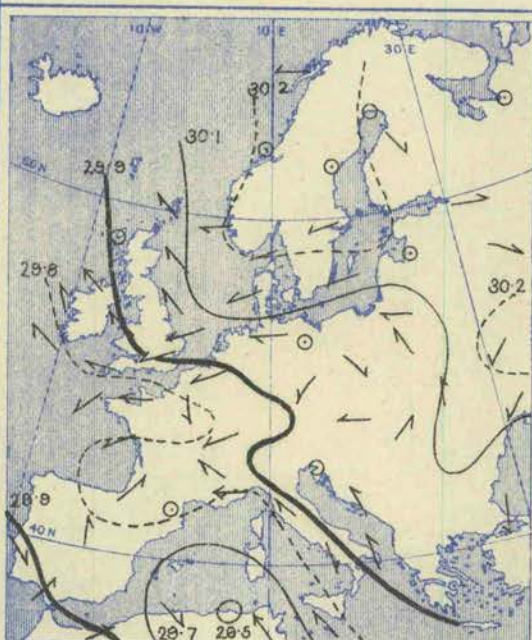
Temperature and Weather.

8 a.m.

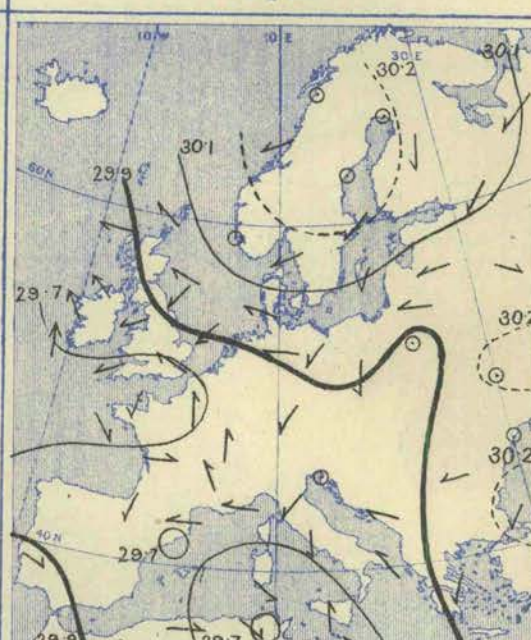


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the extreme north of Europe, and fair as a whole in most other places; less settled, however, than of late; foggy in several parts of southern and central Europe, and in Algeria. Rain falling later—very generally over France, England, and western Germany, but in small quantities, except at some of the Mediterranean stations and over the south-east of Kent and the Straits of Dover, where thunder and lightning occurred locally; remaining fine over northern Europe, Scotland, and Ireland.

Temperature in morning highest, 60° at La Calle, and above 60° over the southern parts of the Mediterranean, as well as at Leghorn and Nice; above 50° over France and south Germany, 51° at Valencia, 50° at Scilly. Lowest, 36° to 39° over Finland and the north of Russia, 43° at Shields, 44° at Aberdeen and over our midland counties. Rising later to between 60° and 65° over the south-east of England to between 65° and 69° over France to 64° at Palermo and Sfax. Succeeding night mild and soft over the latter districts.

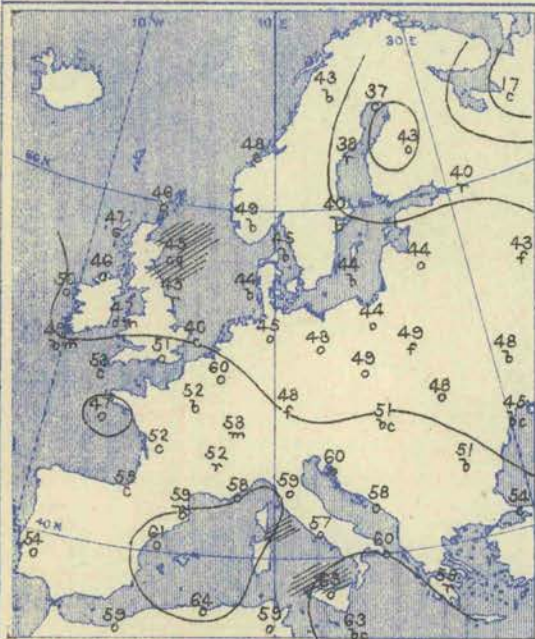
Wind light and anticyclonic over the whole of northern Europe, rather more brisk from between North-East and South-East over our Islands, the English Channel and the south of France; extremely variable—and in many places cyclonic—over the Mediterranean and south-western Europe. Another small cyclonic circulation being developed over France later and speeding northwards to the south of England.

Barometer in morning highest, (1) 30.2 ins. and more over Scandinavia and also over the south of Russia, and exceeding 30.1 ins. over Russia and the Baltic generally; (2) about 30.0 ins. over the south-west of Spain. Lowest, (1) below 29.5 ins. in a depression near La Calle, and below 29.7 ins. over the southern parts of the Mediterranean; (2) below 29.8 ins. over the Bay of Biscay, and in a shallow local disturbance over the north-western part of France, as well as below 30.0 ins. in another over Austria-Hungary. A shallow but well-marked disturbance appearing over the north of France later and advancing northwards towards England.

Wednesday, 27th April.

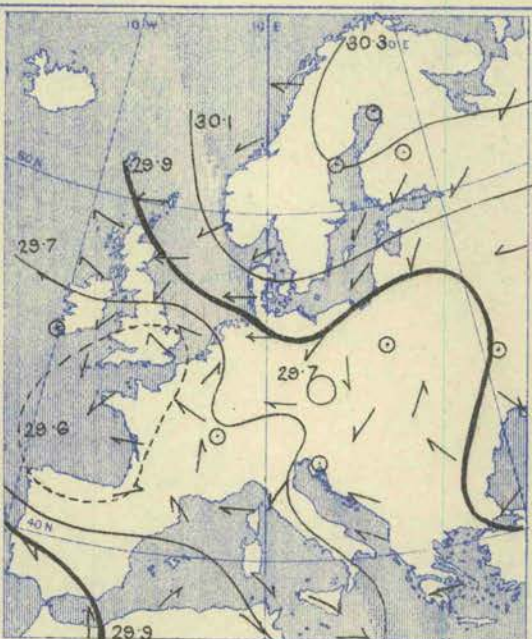
Temperature and Weather.

8 a.m.

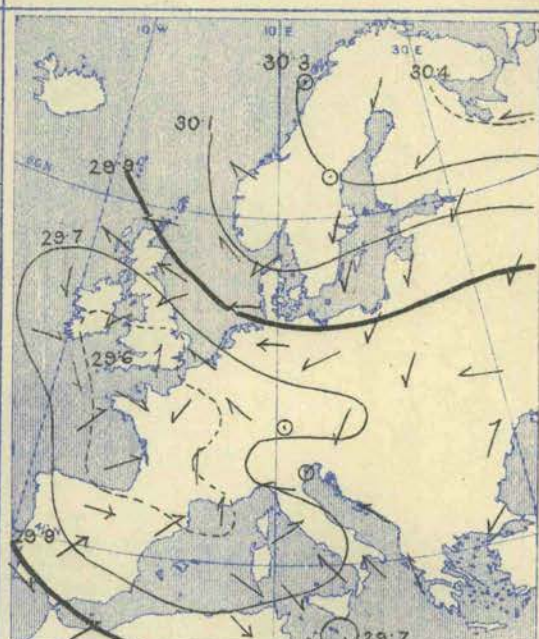


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the whole of Scandinavia and the greater part of northern Europe—fair over Scotland and Ireland. Very changeable over England and the greater part of central and western Europe, with rain in several places. Rain falling later over central and western Europe generally, and amounting to more than an inch at Gap to 0.7 in. at Belfort, 0.55 in. at Paris, 0.3 in. on the east coasts of Great Britain, 0.2 in. in London and also at Lisbon.

Temperature risen somewhat both over England and central Europe. Morning readings highest, 64° to 59° on the southern shores of the Mediterranean, 63° at Leghorn, 60° at Brussels, and above 47° over the greater part of central and western Europe, as well as over England and Ireland. Lowest, 17° at Archangel, 32° at Hangö, 35° at Hernösand and Helsingfors, 48° at Copenhagen. Rising later to between 50° and 56° in the east of Scotland, 55° to 58° over Ireland, and touching 60° at the North Foreland, 63° at Wiesbaden, 71° at Paris, 73° at Perpignan and at Rome, and to 79° at Sfax.

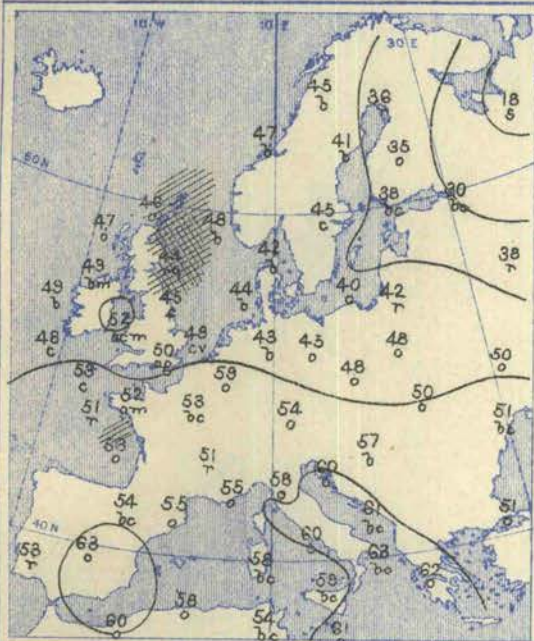
Wind (1) North-Easterly to Easterly over all the northern half of Europe and the British Isles, and light to moderate in force; (2) light to moderate in force and very variable over England, France, the southern and central parts of Europe generally; Westerly to North-Westerly, and strong, over the southern parts of the Mediterranean. Very little change later.

Barometer highest, (1) 30.3 ins. to 30.0 ins. over northern Europe and the Shetland Islands; (2) about 30.0 ins. over the extreme south-west of the Iberian Peninsula. Lowest, below 29.6 ins. in a complex depression over the Bay of Biscay, the north-western half of France and the southern half of England, and below 29.7 ins. in a secondary over the northern parts of Austria; also below 29.9 ins. in a shallow disturbance over the south of Russia, and apparently still lower over Asia Minor. No decided change later either over our Islands or France.

Thursday, 28th April.

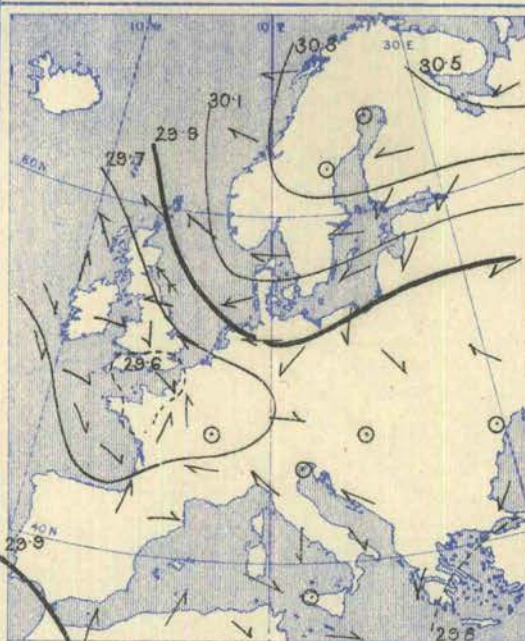
Temperature and Weather.

8 a.m.

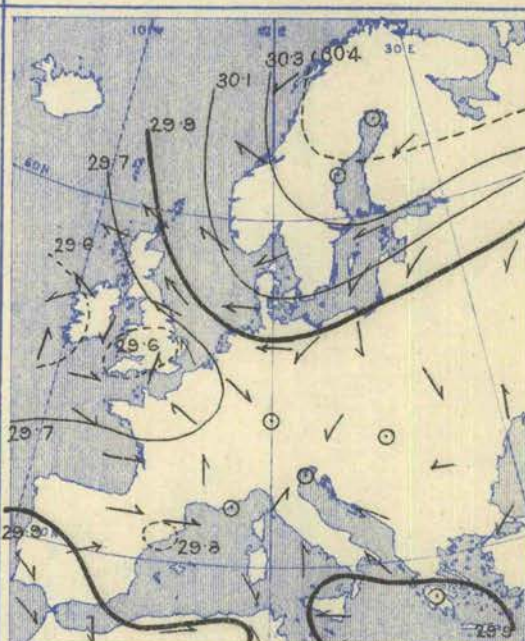


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Scandinavia and the Gulfs of Finland and Bothnia, as well as over south-eastern Europe, Sicily, Tunis, and the adjacent parts of the Mediterranean; cloudy and changeable over central Europe, France, and the eastern half of Europe; fair over Wales and Ireland. Considerable rain falling later over the British Islands and France (especially in the south), but very fine weather prevalent over Scandinavia.

Temperature not changing much. Morning readings highest, 67° at La Calle and Sfax, and above 60° at many stations on the southern and eastern shores of the Mediterranean, as well as at Madrid; 53° at Paris and Sicily, 50° in London and at the North Foreland; 57° at Buda-Pesth, 63° at Cracow. Lowest, (1) 18° at Archangel, 30° at St. Petersburg, but much above the freezing point at all the other Russian stations; (2) 42° at Neufahrwasser, the Scaw, 44° at Aberdeen. Rising later to between 50° and 52° in several parts of Scotland, 54° and 57° over Ireland and England, 64° at Wiesbaden, 66° at Paris, 68° at Perpignan, 72° at Brindisi, and to 79° at Tunis.

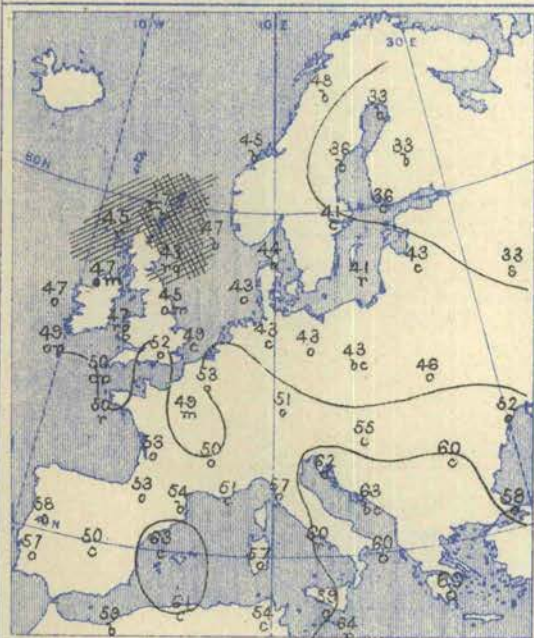
Wind (1) Easterly (North-East to South-East) over all the northern parts of Europe, and blowing very strongly from South-East on the north-east coasts of Scotland; (2) very light and variable elsewhere, but mainly North-Westerly on our south-west coasts and over the Bay of Biscay. Shifting to the Southward in the west of Ireland later.

Barometer highest, (1) 30.5 ins. at Archangel, and 30.0 ins. over the whole of Scandinavia and northern Europe; (2) 30.15 ins. at Ponta Delgada (Azores), and exceeding 29.9 ins. over Morocco and the southern parts of Spain. Below 29.8 ins. all over Austria, France, and the British Isles, and below 29.6 ins. in two minima—one over the north of France and south of England, the other off our extreme north-west coasts. Falling decidedly in the west of Ireland later.

Friday, 29th April.

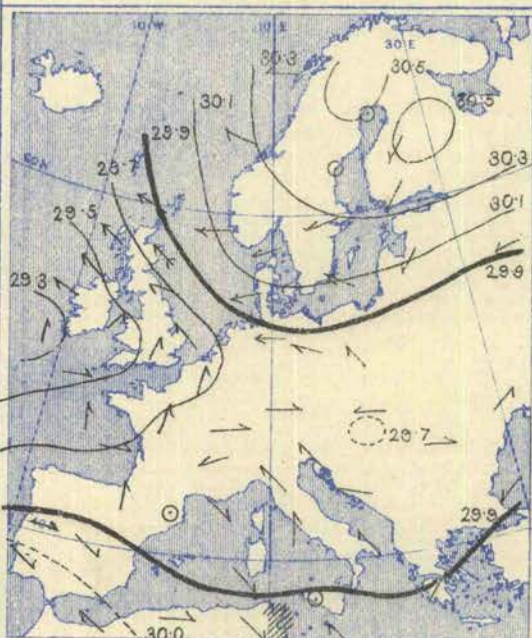
Temperature and Weather.

8 a.m.

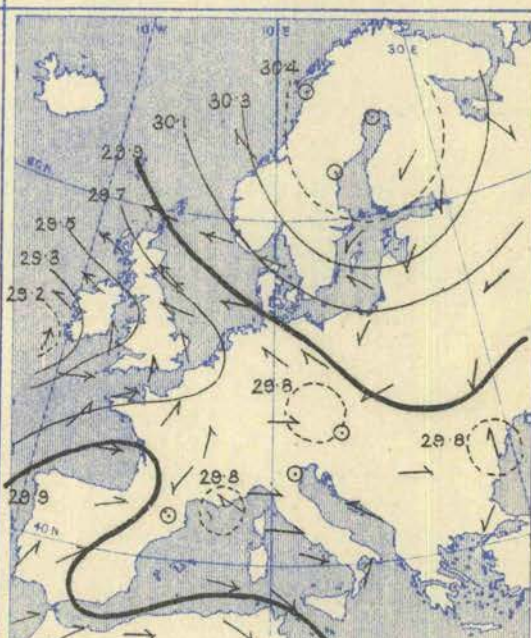


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over northern Europe, and fair but not settled at many of the Mediterranean stations; dull, changeable and unsettled over the United Kingdom, with showers in many places, and heavy rain in the east of Scotland. Continuing in an unsettled condition over the British Islands all day—especially over Ireland and Scotland; clearing temporarily in the west and south-west of France. Rainfall exceeding an inch at Aberdeen, thunder occurring in several parts of England, and considerable rain at Dunkirk. Heavy falls over several parts of the Mediterranean.

Temperature unsteady, but not changing much. Morning readings highest, 65° at Patras, 63° at Malta and Lesina; 59° at Bilbao, 54° at Wiesbaden, 53° at Vienna. Lowest, 33° at Haparanda, Kuopio and Moscow, 36° at Hangö, 40° at Copenhagen, 43° at Aberdeen. Rising later to a little above 60° in some parts of England to 63° at Paris and Lisbon, 64° at Nice and 67° at Perpignan, 73° at Cape Bearn and Brindisi, 80° at La Calle.

Wind (1) still Easterly (North-East to South-East) over all the northern countries, and blowing a strong gale from South-East over the north-eastern parts of Scotland; (2) mainly Westerly over south-western Europe, but Southerly to South-Easterly over England and Ireland and of very little strength. Freshening a good deal over Ireland later and continuing to blow hard in the east of Scotland.

Barometer highest, (1) 30.5 ins. to 30.0 ins. over Scandinavia and the northern half of Russia; (2) 30.0 ins. and more over Morocco and the southern parts of Spain and Portugal. Lowest, below 29.3 ins. over the south-west of Ireland, and below 29.6 ins. in shallow secondary disturbances over England and Brittany. Falling slowly in the west of Ireland during the day, rising over France and the Channel.

Saturday, 30th April.

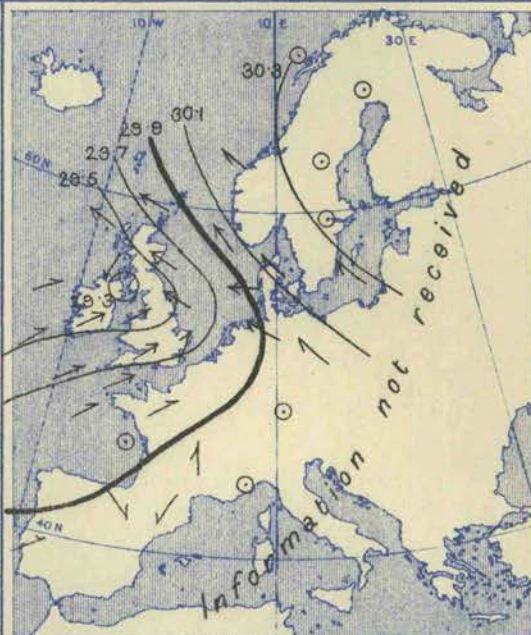
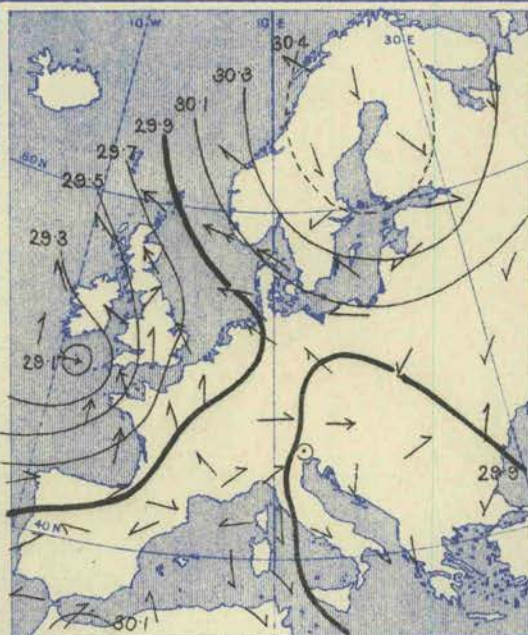
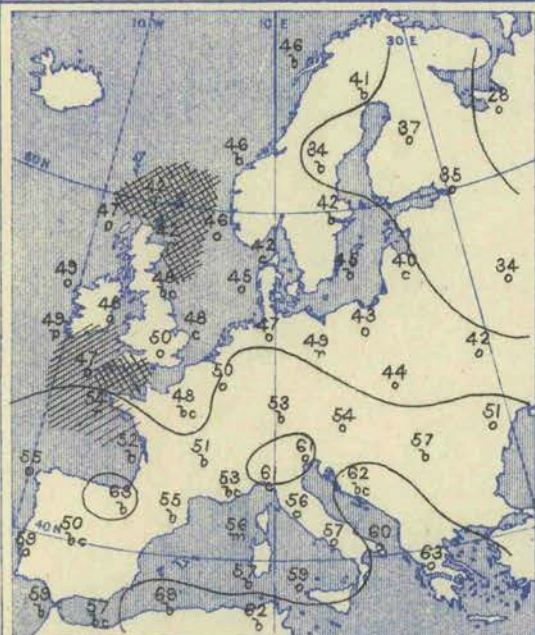
Temperature and Weather.

Barometer and Wind.

8 a.m.

8 a.m.

6 p.m.



Weather in morning still fine and bright over Scandinavia on the one hand, and fair over southern Europe on the other; becoming very dull, squally and rainy over the United Kingdom, and continuing unsettled over central and south-eastern Europe as a whole, though improving in some localities. Squally, showery weather prevailing over the United Kingdom later—the largest rainfalls being 0.47 ins. at Holyhead and about a quarter of an inch at several of the most western and northern stations.

Temperature changing uncertainly—falling over many parts of England and Ireland, but rising in the south-west of France and over central Europe. Morning readings highest, 60° at Algiers, 63° at Patras; exceeding 50° in many parts of France and central Europe, 50° in London, 49° at Valencia. Rising later to between 50° and 57° over our Islands, to 64° at Wiesbaden, 68° at Paris, and 70° at Biarritz.

Wind Southerly and South-Easterly, strong, over the north of France and the western parts of the English Channel (a gale from various directions over Devon and Cornwall, and from South-East at Jersey). Southerly to South-Easterly, and strong, over the northern parts of the Kingdom and at Skudesnaes. Easterly, and light, over northern Europe, but very variable and light over the northern, central, and southern parts of Europe. Gale in Channel spreading Eastwards later, but moderating at night; wind increasing over Irish Channel and north of England.

Barometer in morning highest, (1) 30.4 ins. to 30.0 ins. over Scandinavia and the north of Russia; (2) 30.0 ins. and more over the north of Africa and the southern half of Spain, and exceeding 29.9 ins. over most of the southern parts of France. Lowest, (1) below 29.2 ins. off the extreme west of Ireland, and 29.1 ins. and less to 29.2 ins. in a small well-defined depression over the Scilly Islands, and the adjacent parts of Cornwall, Devon, and the two Channels. Latter disturbance moving northwards later, and barometer rising fast at our southern stations and in France.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\Rightarrow$ = a heavy gale; $\Rightarrow$ = a gale; $\Rightarrow$ = a fresh to strong breeze; $\Rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week anticyclonic systems were still prevalent over the northern countries of Europe, and very shallow low-pressure systems in the south-east, south and south-west. The winds were unusually light—mainly Easterly over the northern parts, but variable in the south, and the weather dry, but very cold over the British Islands in the early morning.

On Monday a more decided depression appeared on the African coast, and between this time and the night of the 27th it moved eastwards slowly to the eastward of Malta, where it disappeared. In the mean time shallow depressions began to appear over various parts of Germany, France and the south-west of our Islands, bringing with them showery changeable weather, some increase of temperature, and South-Easterly gales over the north-east of Scotland. These disturbances increased in area, and being reinforced by fresh disturbances from the Atlantic, caused rainy weather to spread all over central Europe, the west of France and the British Islands, accompanied by South-Easterly to South-Westerly gales over Brittany, the English Channel, and later on over our western districts also. It was only over Scandinavia and the northern parts of Russia that the weather remained dry.

At the close of the week a slight but temporary improvement had set in over the southern parts of England, but the general distribution of pressure was favourable for an early return of showery and mild weather over western Europe and the British Islands, but for fairer weather over the southern countries and the Mediterranean.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 98.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	40.1	?	37	?	WESTBOURNE (Emsworth)	33.1*	-11.7	33*	-13
STRATHPEFFER SPA	22.1	-13.9	21	-14	WATERGATE (Emsworth)	21.5	?	21	?
EDINBURGH	6.5	-23.7	6	-24	BRIGHTON	27.3	-16.7	27	-17
MORPETH	13.9	?	13	?	EASTBOURNE	39.8	-3.1	39	-4
NEWCASTLE-ON-TYNE	10.9	?	11	?	VENTNOR HOSPITAL	35.6	?	35	?
OSWALDKIRK (Yorkshire)	6.1	-28.0	6	-27	SOUTHPORT	20.7	?	20	?
SHEFFIELD	9.6	?	9	?	COLWYN BAY	27.7	?	27	?
WORKSOP	10.5	-21.6	10	-22	TENBY	40.5*	-0.5	40*	-8
THURCASTON (Leicestershire)	12.0	-21.3	12	-22	NEWQUAY	44.1	+0.9	44	0
HOLLESLEY BAY					TORQUAY	33.2*	-10.3	33*	-11
PLUMSTEAD COMMON	12.6	?	12	?	GUERNSEY	34.0*	-13.0	35*	-15
MARGATE	42.4	+4.6	42	+5					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH,
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.VOL. XV. No. 18.]
Third Series.

WEEK ENDING SATURDAY, MAY 7TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE
UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 104.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	64	31	55.5	41.3	48.0	2 above	Day-deg. 45	Day-deg. +11	Day-deg. 2	Day-deg. - 9	Day-deg. 320	Day-deg. + 97	Day-deg. 301	Day-deg. - 235
	1. SCOTLAND, EAST	64	29	57.3	40.7	48.5	2 above	51	+10	4	- 7	386	+ 96	390	- 240
	2. ENGLAND, N.E.	64	34	56.1	41.7	48.5	2 above	47	+ 9	1	- 6	416	+136	324	- 213
	3. ENGLAND, EAST	67	37	57.9	43.2	50.1	2 above	57	+ 5	0	- 7	442	+ 75	406	- 196
	4. MIDLAND COUNTIES	66	32	57.7	41.7	49.2	0 (average)	52	- 2	1	- 7	466	+ 70	396	- 209
	5. ENGLAND, SOUTH	69	38	57.6	45.4	51.1	1 above	64	+ 6	0	- 2	494	+ 79	234	- 238
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	61	33	55.6	42.3	48.6	1 above	46	+ 1	0	- 7	426	+114	232	- 218
	7. ENGLAND, N.W.	63	37	56.0	43.1	49.2	0 (average)	50	+ 3	0	- 5	432	+114	215	- 233
	8. ENGLAND, S.W.	64	31	55.7	44.4	49.7	0 (average)	54	+ 1	0	- 3	514	+ 82	205	- 152
	9. IRELAND, NORTH	65	35	55.7	41.2	48.0	0 (average)	45	- 3	2	- 3	492	+108	223	- 164
	10. IRELAND, SOUTH	65	36	56.1	43.4	49.4	0 (average)	52	- 2	0	- 3	606	+111	165*	- 129
	—CHANNEL ISLANDS.	62	42	57.2	47.6	52.1	1 above	71	+12	0	0	712	+184	55	- 93

DISTRICTS. (See p. 104.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.		Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	10ths of in. 8	10ths of in. 2 more	100	+15	Ins. 23.4	+ 6.7	43	+ 6	39	+ 5	345	+14	25	+ 1	
	1. SCOTLAND, EAST	4	8	3 more	74	+ 8	9.1	- 0.5	46	+10	42	+ 8	384	+14	29	+ 1	
	2. ENGLAND, N.E.	5	4	1 more	64	0	6.5	- 1.0	35	- 1	33	- 1	376	+15	23	+ 1	
	3. ENGLAND, EAST	5	7	4 more	57	- 6	5.4	- 1.9	35	- 6	34	- 6	425	- 3	31	0	
	4. MIDLAND COUNTIES	6	8	4 more	58	- 2	5.5	- 2.7	35	- 3	34	- 3	387	+12	29	+ 1	
	5. ENGLAND, SOUTH	6	10	6 more	54	- 4	5.7	- 3.2	35	- 5	34	- 6	417	+ 4	32	0	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	8	3 more	85	+14	14.5	- 1.7	44	+ 6	41	+ 4	390	+27	30	+ 2	
	7. ENGLAND, N.W.	5	6	2 more	69	+ 4	10.6	+ 0.8	37	- 5	35	- 6	432	+75	33	+ 6	
	8. ENGLAND, S.W.	6	18	13 more	67	+ 1	10.2	- 2.1	41	- 4	40	- 5	495	+21	36	+ 1	
	9. IRELAND, NORTH	6	13	8 more	87	+12	12.4	+ 0.9	41	+ 3	38	+ 2	409	+41	30	+ 3	
	10. IRELAND, SOUTH	5	12	6 more	65	- 5	12.3	- 0.7	38	- 4	36	- 5	444	+ 8	33	+ 1	
	— CHANNEL ISLANDS.	6	12*	8 more	77	+ 5	7.4	- 3.3	41	-10	39	-12	543	+11	39	+ 1	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather was very changeable in all parts of the Kingdom, with frequent, and at times heavy, rain. Thunderstorms occurred in a few localities on the 1st, and again in other places on the 3rd.

Temperature was about equal to or rather above the mean. The highest of the maxima, which were registered on irregular dates, ranged from 69° in England S. (in London on the 2nd) and 67° in England E. to 62° in the Channel Islands and 61° in Scotland W. The lowest of the minima were, as a whole, recorded either at the commencement or end of the week, and ranged from 29° in Scotland E. and 31° in Scotland N. and England S.W. to 38° in England S. and to 42° in the Channel Islands.

Rainfall was more than the mean in all districts, the excess being large in the southern and south-western districts, and considerable in most other parts of the country.

Bright Sunshine slightly exceeded the mean in Scotland, as well as in Ireland N., but was deficient in all other districts. The percentage of the possible duration ranged from 42 in Scot-

land E., 41 in Scotland W., and 40 in England S.W., to 34 over central, eastern, and southern England, and to 33 in England N.E.

Barometer and Wind.—During the whole of this period depressions continued to reach the western parts of our Islands from the south-westward, and, as a rule, travelled away in a northerly or north-easterly direction, but at the same time spreading eastwards over the greater part of the Kingdom. During Thursday a well-defined disturbance moved quickly to the eastward directly across the central parts of England, but by the end of the week the distribution of pressure over all the more southern and eastern parts of the Kingdom had become anticyclonic. The wind varied considerably both in direction and force; it blew mainly from between South-West and South-East and was moderate to fresh in force. On the 2nd, however, a slight Southerly gale was experienced on our south-western coasts, and a fresh Easterly gale in the north of Ireland.

II.—DATA from which the SUMMARY on page 103 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	53	40	50.0	42.1	45.8	+ 2.1	27	0	5	0.59	+ 0.19	*	*	*	*
	Stornoway	57	35	53.7	40.7	46.8	+ 1.3	39	4	7	0.92	+ 0.39	43.7	+ 2.9	40	+ 2
	Wick	61	35	56.1	41.9	48.6	+ 3.1	47	0	3	0.25	- 0.17	*	*	*	*
	Lairg	61	33	58.1	40.1	48.6	+ 3.1	54	5	4	1.47	+ 0.98	*	*	*	*
	Glencarron	62	33	55.3	39.8	47.1	+ 1.1	45	6	6	1.25	+ 0.32	*	*	*	*
	Fort Augustus	64	31	59.2	40.9	49.5	+ 1.5	57	3	4	0.43	- 0.07	41.0	+13.2	38	+10
1. SCOTLAND, E.	Fort William	59	36	56.3	43.3	49.4	+ 1.1	52	0	6	0.55	- 0.25	43.5	+ 6.7	40	+ 5
	Nairn	63	30	59.6	40.4	49.4	+ 2.0	59	4	4	0.51	+ 0.18	*	*	*	*
	Aberdeen	61	37	55.6	42.6	48.7	+ 2.5	47	0	4	0.81	+ 0.38	51.9	+12.7	48	+11
	Braemar	60	29	53.5	38.2	45.4	+ 1.5	40	11	5	0.69	+ 0.16	35.2†	- 0.4†	33†	- 1†
	Ochertyre	64	35	59.7	41.1	49.8	+ 2.3	58	3	4	0.88	+ 0.41	*	*	*	*
	Leith	64	40	59.9	42.6	50.7	+ 2.9	61	0	4	0.63	+ 0.33	*	*	*	*
2. ENGLAND, N.E.	Marchmont	62	35	55.4	39.1	46.8	+ 0.9	46	8	5	1.10	+ 0.60	51.3	+14.3	47	+11
	Alnwick Castle	59	34	56.6	39.7	47.6	+ 2.0	49	6	7	0.36	- 0.06	*	*	*	*
	Durham	64	35	56.9	39.9	47.9	+ 1.3	50	6	6	0.30	- 0.08	39.5	+ 6.0	37	+ 6
	Shields	60	40	55.4	42.4	48.5	+ 2.3	46	0	4	0.41	+ 0.06	*	*	*	*
	Scarborough	61	37	57.4	42.3	49.4	+ 0.9	52	0	5	0.47	+ 0.13	28.4	- 3.3	27	- 8
	Spurn Head	59	42	54.4	44.3	49.1	+ 1.8	50	0	4	0.60	+ 0.30	*	*	*	*
3. ENGLAND E.	Hillington	64	38	58.7	43.1	50.4	+ 1.9	59	0	6	0.93	+ 0.56	36.6	- 5.0	35	- 5
	Yarmouth	57	41	53.7	44.1	48.6	+ 0.9	46	0	5	0.71	+ 0.37	*	*	*	*
	Geldeston	62	40	57.7	43.9	50.4	+ 2.1	59	0	5	0.67	+ 0.35	36.8	- 6.2	35	- 8
	Cambridge	67	37	60.9	42.1	50.9	+ 1.0	62	0	6	0.72	+ 0.34	37.7	- 3.1	36	- 3
	Rothamsted	66	37	58.5	42.6	50.1	+ 1.6	57	0	5	0.69	+ 0.21	29.0	- 9.3	28	- 9
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	66	37	59.6	41.7	50.1	+ 0.6	58	1	7	0.29	- 0.06	*	*	*	*
	Loughborough	65	35	59.1	41.6	49.8	0.0	56	1	6	0.93	+ 0.55	*	*	*	*
	Stamford (Duddington)	64	37	59.0	42.0	50.0	+ 0.5	56	0	7	0.88	+ 0.48	*	*	*	*
	Cheadle	62	38	55.7	40.5	47.6	+ 0.1	46	4	5	0.97	+ 0.53	*	*	*	*
	Shirley (near Solihull)	63	38	56.6	42.4	49.1	0.0	50	0	6	1.16	?	*	*	*	*
	Churchstoke	66	32	57.5	39.9	48.2	+ 1.0	52	6	6	0.62	+ 0.21	44.2	+ 6.2	42	+ 5
5. ENGLAND, S.	Hereford	61	36	56.2	41.9	48.6	- 0.7	47	0	6	0.86	+ 0.48	*	*	*	*
	Cirencester	63	35	57.7	41.3	49.0	+ 0.8	52	2	6	0.88	+ 0.48	35.0	- 6.2	34	- 6
	Oxford	64	39	57.6	43.6	50.2	+ 0.5	57	0	6	0.81	+ 0.46	31.3	- 8.2	30	- 9
	London	69	40	60.4	45.3	52.4	+ 1.4	73	0	5	0.67	+ 0.29	34.3†	- 1.3†	33†	- 1†
	North Foreland	63	43	56.4	45.9	50.8	+ 3.1	62	0	6	0.80	?	*	*	*	*
	Cranley	65	38	59.3	42.2	50.2	+ 0.1	57	0	6	1.23	?	*	*	*	*
6. SCOTLAND, W.	Dungeness	59	44	56.6	47.1	51.6	+ 2.1	67	0	6	0.82	+ 0.52	*	*	*	*
	Hastings (St. Leonards)	60	45	56.8	47.2	51.7	+ 1.8	68	0	5	1.01	+ 0.68	42.8	- 4.2	42	- 5
	Southampton	66	42	59.4	45.9	52.3	+ 1.1	72	0	6	1.02	+ 0.62	37.5	- 6.5	36	- 8
	Hurst Castle	63	42	56.1	46.3	50.9	+ 0.7	62	0	6	1.09	+ 0.77	*	*	*	*
	Shaftesbury	62	41	55.8	43.2	49.1	+ 0.4	50	0	6	1.05	+ 0.47	*	*	*	*
7. ENGLAND, N.W.	Laudale (Loch Sunart)	58	37	55.1	43.6	49.0	+ 0.5	49	0	6	0.69	- 0.09	*	*	*	*
	Glasgow	61	41	56.2	43.1	49.3	+ 1.8	51	0	4	0.98	+ 0.60	46.8	+ 13.5	43	+ 11
	Ardrossan	57	40	54.1	42.3	47.9	- 0.5	41	0	4	0.27	- 0.13	*	*	*	*
	Glenlee	60	33	56.6	39.8	47.7	+ 0.3	49	6	5	0.88	+ 0.56	*	*	*	*
	Gilcrux (Cumberland)	60	37	56.7	42.2	49.0	+ 1.9	49	0	5	0.74	?	39.1	?	37	?
	Douglas (Isle of Man)	59	37	54.9	43.0	48.6	+ 0.6	46	0	5	0.93	+ 0.51	45.1	- 0.9	43	- 2
8. ENGLAND, S.W.	Stonyhurst	59	39	55.3	42.1	48.3	+ 0.1	44	0	4	0.29	- 0.19	32.6	- 5.4	31	- 6
	Blackpool	61	37	56.5	41.9	48.8	+ 1.0	48	0	4	0.27	- 0.14	30.9	?	29	?
	Manchester (Prestwich)	63	41	57.0	43.6	49.9	+ 0.2	55	0	4	0.28	- 0.02	*	*	*	*
	Liverpool Obsy. (Bidston)	61	40	55.7	43.7	49.3	- 0.4	51	0	6	1.15	+ 0.79	33.5	- 5.5	32	- 7
	Llandudno	57	42	55.6	44.1	49.5	+ 0.2	53	0	5	0.93	+ 0.57	*	*	*	*
	Holyhead	64	31	58.9	40.7	49.3	+ 0.6	57	4	6	1.12	+ 0.61	*	*	*	*
9. IRELAND N.	Pembroke	53	42	51.7	45.6	48.5	0.0	46	0	6	2.35	+ 2.00	39.2	- 7.5	38	- 7
	Clifton	64	43	57.1	45.0	50.7	+ 1.6	61	0	5	1.37	+ 0.92	*	*	*	*
	Arlington (N. Devon)	62	35	55.7	41.9	48.4	- 0.1	45	0	6	1.59	+ 1.07	*	*	*	*
	Cullompton	63	37	57.6	43.2	50.0	0.0	56	0	6	1.48	+ 0.91	41.7	+ 1.7	40	0
	Falmouth	60	44	55.9	47.0	51.2	+ 1.2	64	0	6	2.01	+ 1.36	40.6	- 6.4	39	- 8
	Plymouth	58	42	54.6	46.2	50.2	- 0.8	57	0	6	2.41	+ 1.96	43.3	- 1.4	42	- 3
10. IRELAND, S.	Prawle Point	60	44	53.9	45.7	49.6	+ 0.7	53	0	6	1.69	+ 1.37	*	*	*	*
	Malin Head	58	42	53.4	44.4	48.6	+ 0.4	46	0	5	1.02	?	*	*	*	*
	Londonderry	65	39	59.3	42.4	50.3	+ 0.9	58	0	6	1.02	+ 0.62	*	*	*	*
	Edenfel (Omagh)	63	38	56.1	40.3	47.7	+ 0.2	47	5	5	1.26	+ 0.81	*	*	*	*
	Belmullet	59	40	54.6	43.3	48.6	- 0.9	46	0	7	1.83	+ 1.35	*	*	*	*
	Markree Castle	61	37	56.5	39.6	47.5	- 0.2	49	7	6	2.06	+ 1.58	42.5	+ 3.7	40	+ 3
CHANNEL ISLANDS	Armagh	59	35	55.4	38.7	46.6	- 1.2	46	9	5	1.19	+ 0.69	38.4	+ 1.7	36	0
	Donaghadee	57	36	54.4	41.6	47.6	- 0.1	41	1	5	0.95	+ 0.55	*	*	*	*
	Edgeworthstown	62	35	55.7	39.0	46.9	- 1.6	47	8	5	0.95	+ 0.45	*	*	*	*
	Dublin	61	40	56.5	43.4	49.6	- 0.2	53	0	5	1.41	+ 0.97	38.6	- 4.8	37	- 5
	Parsonstown	62	36	56.4	41.3	48.4	- 0.5	48	2	6	1.00	+ 0.52	34.1	- 4.9	32	- 6
	Kilkenny	61	37	55.3	41.1	47.8	- 1.5	44	3	7	1.28	+ 0.80	*	*	*	*
CHANNEL ISLANDS	Roche's Point	58	44	54.6	46.3	50.2	- 0.3	57	0	4	1.53	+ 0.83	*	*	*	*
	Valencia	60	40	55.6	44.4	49.7	- 0.8	54	0	7	0.79	- 0.04	39.9	- 3.3	38	- 5
	Killarney	65	36	57.2	43.1	49.7	0.0	54	0	6	0.95	?	*	*	*	*
	Foynes	65	41	57.0	44.5	50.4	+ 0.8	59	0	3	1.68	?	*	*	*	*
	Scilly (St. Mary's)	57	46	55.7	47.4	51.3	+ 0.8	65	0	6	1.47	+ 1.10	40.6	?	39	?
	Jersey	62	42	58.6	47.7	52.8	+ 1.1	76	0	6	0.91	+ 0.55	39.1	-11.3	38	-13

Stations marked *all* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

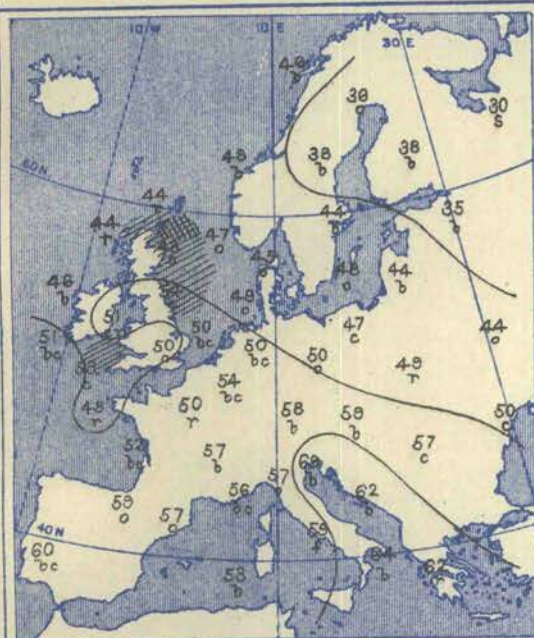
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 1st May.

Temperature and Weather.

8 a.m.

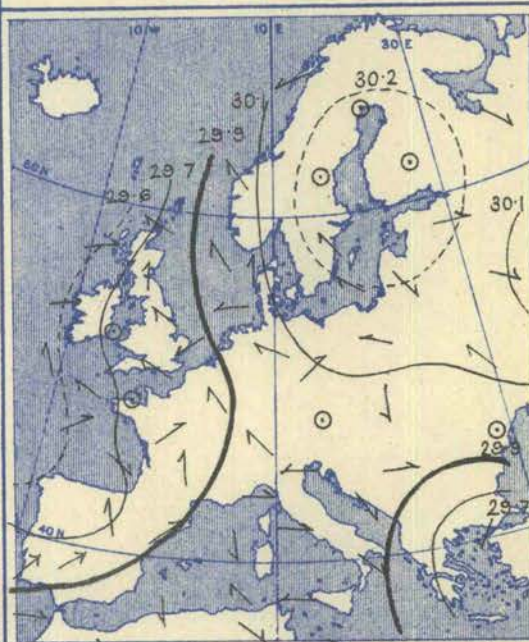


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in Ireland and the south of Scotland, but cloudy in most other parts of western Europe, with rain in Wales and the Shetlands and Hebrides, as well as in the north of France. Fine over the northern, eastern, and southern countries generally, but dull in Denmark, the south of Norway, and the eastern parts of Germany and Austria, with rain at Lemberg; snow falling at Archangel. Rain falling later in most parts of north-western Europe; thunder and lightning occurring in the north of Ireland and the south-east of England.

Temperature risen generally, but fallen in the west of France. Morning readings highest, 69° at Trieste, 64° at Brindisi, 62° at Athens, and 60° at Lisbon (many of the Spanish and Mediterranean reports wanting). Lowest, 30° at Archangel, 35° at St. Petersburg, 36° at Haparanda, and 38° at Kuopio and Hernösand; lowest in our Islands, 44° at Sumburgh Head and Stornoway. Rising during day to 55° and upwards at most of our western and northern stations, and to 61° at Leith; exceeding 70° over the southern parts of the Continent generally, and reaching 86° at Biarritz, and 91° at Gien.

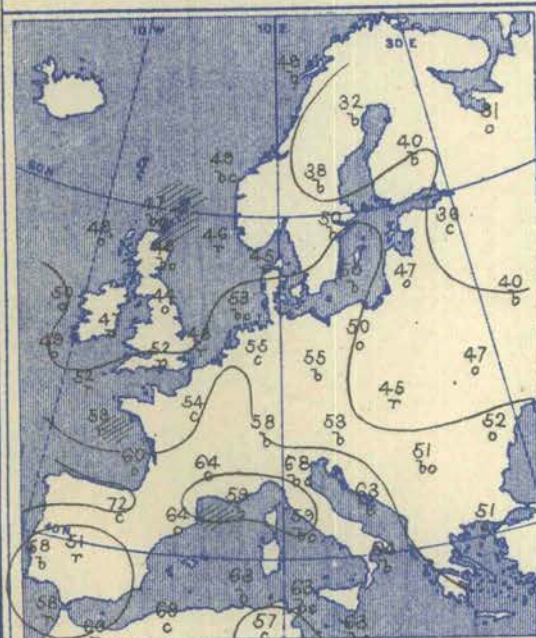
Wind light to moderate from the Eastward in France, and from the South-Eastward or Southward in the south of our Islands; South-Westerly at most of our northern stations, but a South-Easterly gale reported in the Shetlands, and moderate to strong breezes from the same quarter on the eastern shores of the North Sea. Light from the Westward over the northern parts of Russia; Easterly in the south of that country, North-Westerly in Austria; variable in Italy. Subsequently backing to the Eastward in the north of England, but veering to the Southward or South-Westward in France.

Barometer highest, 30.3 ins. and upwards over Finland and the Gulf of Bothnia; 30.1 ins. and upwards in an anticyclone lying over northern Europe generally. Lowest, 29.4 ins. and less in a well-marked depression lying off the north of Scotland. Depression subsequently moving away to the northward, but new disturbance beginning to approach our south-west coasts. Another disturbance appearing over Asia Minor in evening.

Monday, 2nd May.

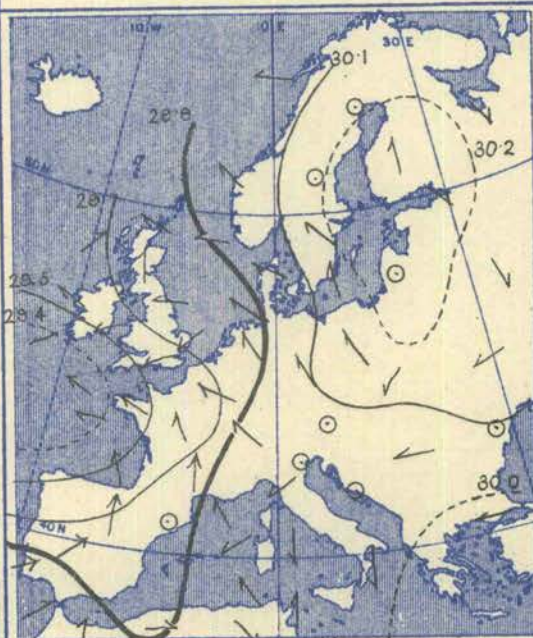
Temperature and Weather.

8 a.m.

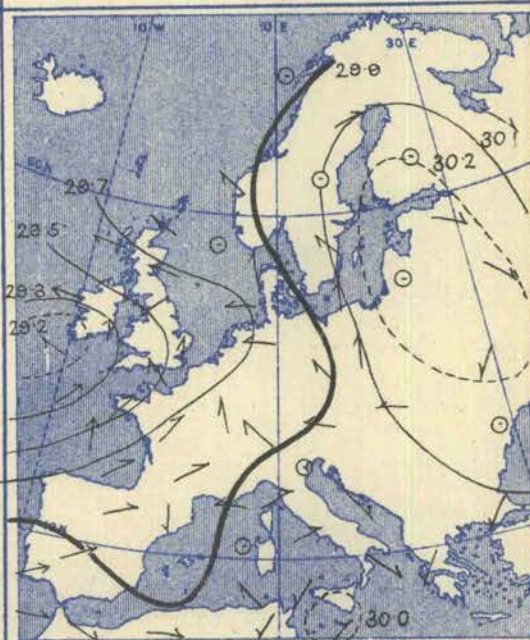


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in Scotland and also over Germany, Austria, Italy and the south of France, and the greater part of Scandinavia and northern Russia. Cloudy or dull elsewhere, with rain in several parts of England and the north of France, as well as in Denmark, the south of Norway and at Madrid. Rain falling later over western Europe generally—heavily at many of our own western and northern stations, and also in the south of France. Severe hailstorm experienced in Plymouth and its vicinity in morning. Lightning seen at Sicily in evening and thunder occurring at Perpignan.

Temperature fallen in Ireland and the north of England, as well as in Austria, but risen elsewhere. Morning readings highest, 72° at Biarritz, 69° at Algiers and 68° at Trieste; above 60° in many parts of southern Europe. Lowest, 31° at Archangel, 32° at Haparanda, and 36° at St. Petersburg. Rising during day to 60° and upwards at several of the inland stations over Great Britain, and to 69° in London; exceeding 70° in many parts of central and southern Europe, and reaching 83° at Nancy.

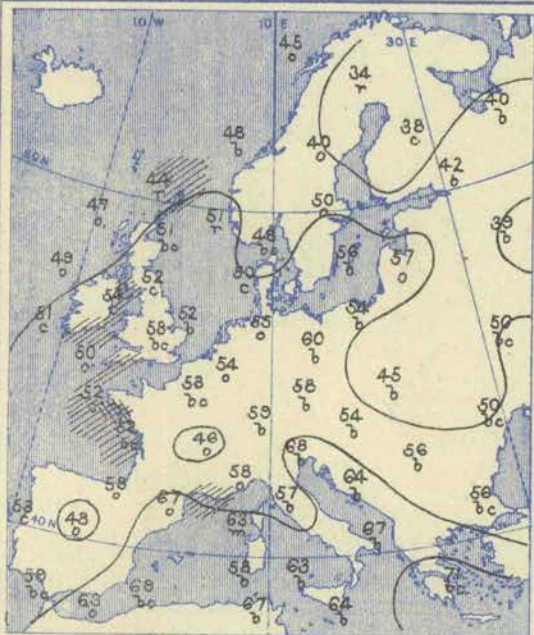
Wind moderate to fresh from the South-Westward over the Spanish Peninsula and from the Southward in France, South-Easterly over Germany, Denmark and the Netherlands, and also in the north of Scotland; Easterly over England and Ireland. Calm or variable over Sweden and northern Russia; Easterly or North-Easterly in Austria and the south of Russia, variable in Italy. Subsequently increasing to fresh gale from the Eastward in the north of Ireland, but veering to the Southward in the south of England.

Barometer highest, 30.2 ins. and upwards over Finland and the Baltic Provinces; 30.1 ins. and upwards in an anticyclone covering nearly the whole of Sweden and Russia; 30.0 ins. and upwards in another system over Morocco and the extreme south of Spain. Lowest, 29.4 ins. and less in a depression lying off our extreme south-west coasts. Depression subsequently moving northwards and barometer falling briskly on our western and northern coasts.

Tuesday, 3rd May.

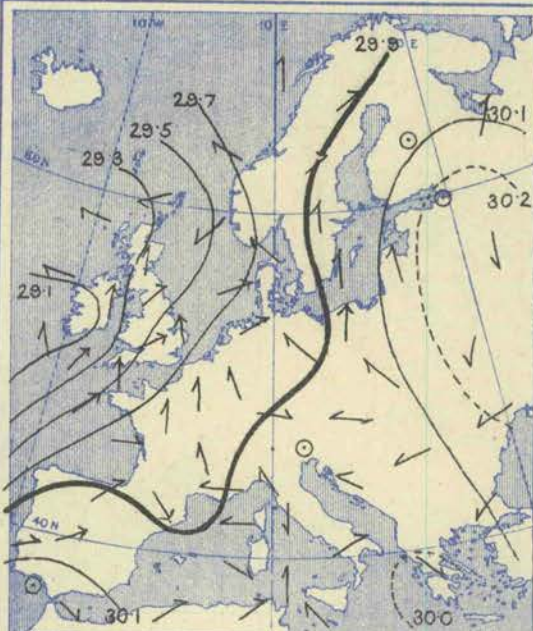
Temperature and Weather.

8 a.m.

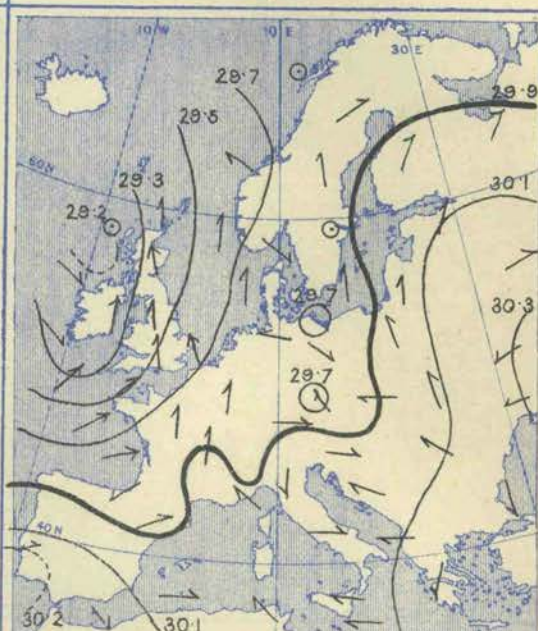


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the north and east of our Islands, as well as in Russia, Germany, Austria, and Italy. Cloudy or dull elsewhere, with passing showers on our own west and south coasts, and steady rain at Haparanda, and Skadesnaes, Wiesbaden, and Belfort. Rain falling later in nearly all parts of western and northern Europe; thunderstorms occurring in many parts of England, France, and Germany, and thunder heard at Spurn Head and Jersey.

Temperature risen in our Islands, as well as in Sweden, Denmark, and Germany; fallen in most other countries, briskly over central France. Morning readings highest, 71° at Athens, 69° at Algiers, and 68° at Trieste; above 60° at the Mediterranean and Adriatic stations generally, and touching 58° in London. Lowest, 34° at Haparanda, 33° at Kuopio and Hango, and 39° at Uleaborg. Rising during day to 60° and upwards in many parts of Great Britain, and to 64° at Leith. Exceeding 65° over France and the Netherlands, exceeding 70° over central and southern Europe, and reaching 77° at Vienna, Trieste, and Florence.

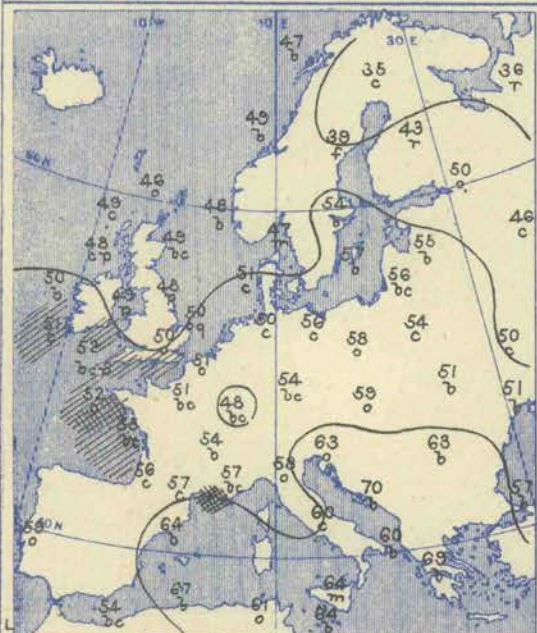
Wind South-Westerly over the Spanish Peninsula and the Bay of Biscay; Southerly over the greater part of our Islands, and very strong in force over the Irish Sea and the St. George's Channel; but Easterly or North-Easterly on our extreme north and north-west coasts, as well as in the south of Norway. Easterly or North-Easterly over Austria and the south of Russia, South-Easterly in Germany. Southerly over the Baltic and Sweden, and the south-Westerly in the north of Russia. Subsequently shifting to the North-Westward in the west of Ireland. No important change occurring elsewhere.

Barometer highest, 30.2 ins. and upwards in a large anticyclone over Russia; 30.1 ins. and upwards in another system over Morocco and the south of Spain. Lowest, 29.1 ins. and less in a depression with its centre off the south-west of Ireland. Depression subsequently moving northwards, but shallow secondary system appearing over the St. George's Channel in evening. Small disturbances forming over the northern and south-eastern parts of Germany.

Wednesday, 4th May.

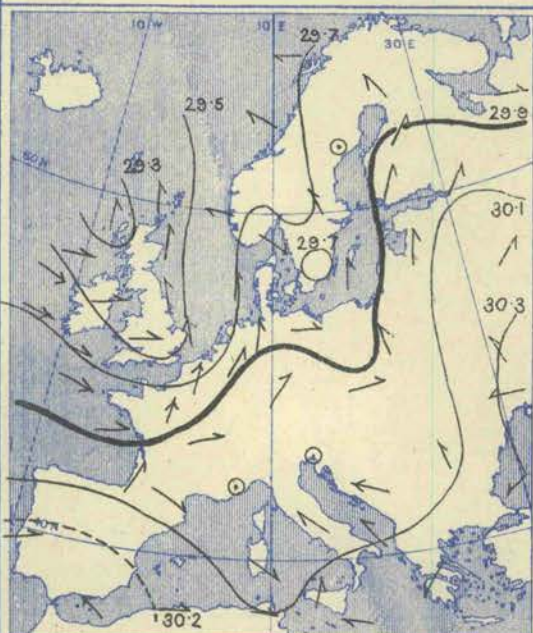
Temperature and Weather.

8 a.m.

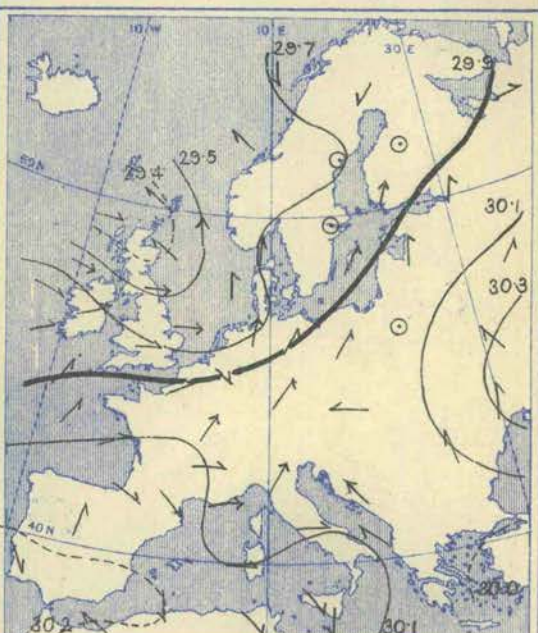


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning changeable and showery over the United Kingdom. Fine in the western and northern parts of the Continent, but rain falling at Copenhagen and Kuopio, and a thunderstorm reported at Karlstad. Cloudy or dull over Germany, Austria and northern Italy; fine over Greece and southern Italy. Rain falling later in most parts of our Islands and the Continent; solar and lunar halos seen in the south of England.

Temperature fallen in the eastern and central parts of our Islands; risen over eastern Europe; changed irregularly elsewhere. Morning readings highest, 70° at Lesina, 69° at Patras, and 67° at Algiers, above 60° at the Mediterranean and Adriatic stations generally. Lowest, 35° at Haparanda, 36° at Archangel, 37° at Uleaborg and 39° at Hernösand. Rising during day to 55° and upwards in most parts of the United Kingdom; exceeding 60° over Germany, Denmark and the south of Scandinavia, and exceeding 70° in many parts of southern Europe, the highest reading of all being 79° at Brindisi and Palermo.

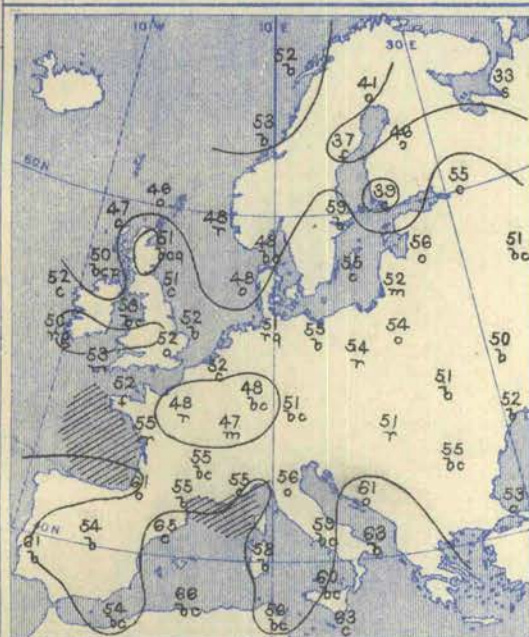
Wind strong from the North-Westward or Westward over the west and south of our Islands and the west of France; light to moderate from the Southward or South-Eastward over the Netherlands, the North Sea and the east and north of our Islands, and from the Eastward in the west of Norway, Westerly in Germany, Southerly over the Baltic and Finland and South-Easterly in Sweden. Variable in Austria, Easterly in Italy, variable over the Spanish Peninsula. Subsequently veering to the Westward in the east of England, but backing to the South-Westward on our south-west coasts.

Barometer highest, 30.4 ins. and upwards in an anticyclone over the south of Russia; 30.2 ins. and upwards in another system over Morocco and the southern parts of the Spanish Peninsula. Lowest, 29.3 ins. and less in a depression off the west of Scotland; 29.4 ins. and less in a secondary system over the north of England. Depression subsequently moving northwards and secondary dispersing over the North Sea; new disturbance beginning to approach our south-west coasts in evening.

Thursday, 5th May.

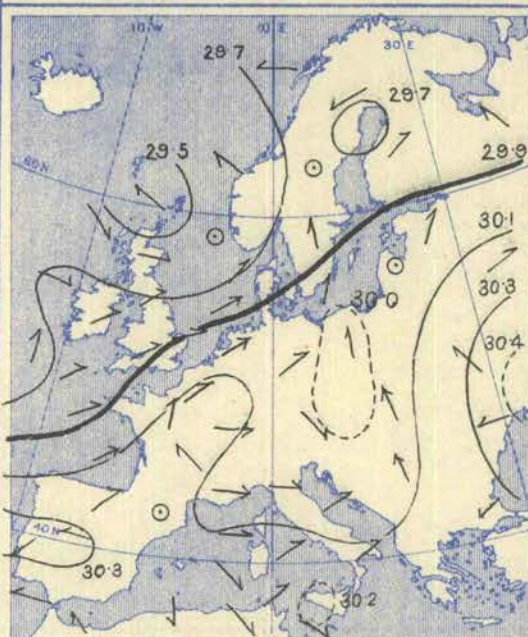
Temperature and Weather.

8 a.m.

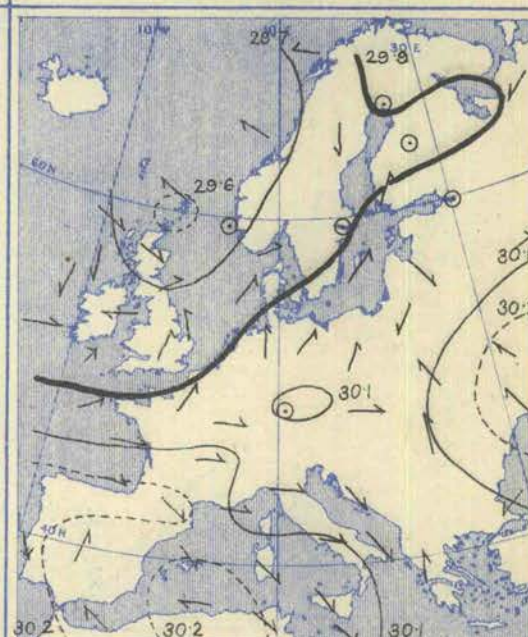


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over all the more northern and eastern parts of the United Kingdom, but dull in the south with rain in several places, and also over the northern parts of France; fog reported at the mouth of the Channel. Fine over southern Europe, as well as in the west of Norway, but cloudy or dull in most of the central countries, with rain over Austria and eastern Germany. Rain falling later in nearly all parts of western, northern, and central Europe, heavily over the Channel, the north of France and the Netherlands (as much as 2.5 ins. at Le Mans); thunderstorm reported at Cuxhaven.

Temperature fallen in Austria and Italy, changed very irregularly elsewhere. Morning readings highest, 66° at Algiers, 65° at Oporto and Barcelona, and 63° at San Fernando, Brindisi and Malta; above 55° over southern Europe generally. Lowest, 33° at Archangel, 37° at Uleaborg and Hernösand, and 41° at Haparanda. Rising during day to 55° and upwards in many parts of our Islands, and to 60° at Shields; exceeding 60° over Germany and the south of Sweden, and exceeding 70° over southern Europe generally, the highest readings of all being 80° at Madrid and 79° at Perpignan.

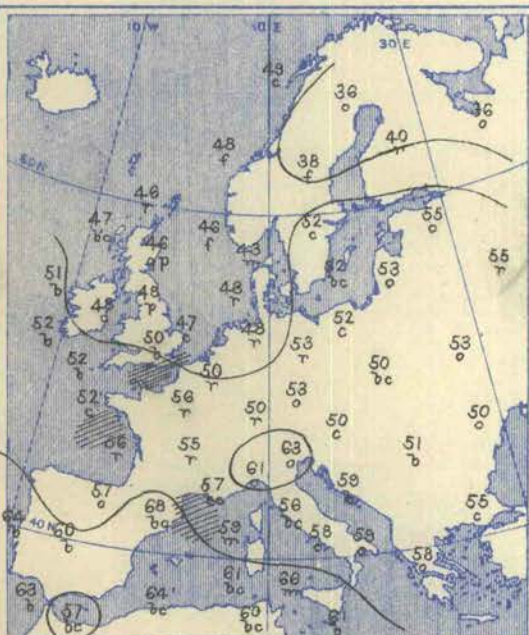
Wind moderate to fresh from the South-Westward over the Bay of Biscay, and from the Southward or South-Eastward on our own south-west coasts. Light to fresh from the Westward over the northern parts of the United Kingdom, and from the South-Westward over the east and south-east of England, the Netherlands, north Germany and Denmark; Southerly in the south of Scandinavia, Easterly in the west of Norway. Variable in Austria, Westerly or South-Westerly in Italy; Easterly or North-Easterly over the Spanish Peninsula. Subsequently veering to the North-Westward or Northward over Scotland and the north of Ireland, but freshening from the South-Westward over the English Channel.

Barometer highest, 30.4 ins. and upwards in an anticyclone over the south of Russia; 30.3 ins. and upwards in another system over Spain. Lowest, 29.5 ins. and less in a shallow depression off the north-east of Scotland; 29.7 ins. and less in another disturbance off the south-west of Ireland, and also in a shallow system over Finland. Depression in south-west subsequently advancing in an east-north-easterly direction across England.

Friday, 6th May.

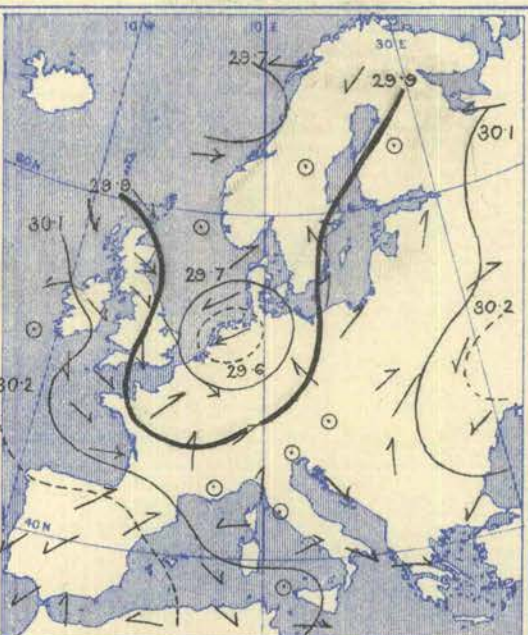
Temperature and Weather.

8 a.m.

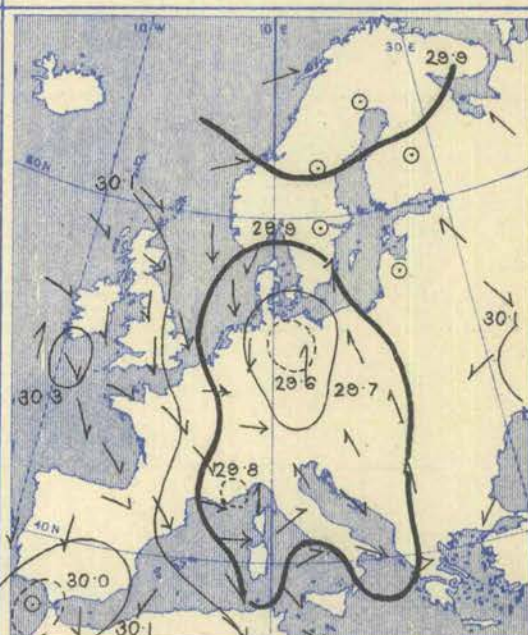


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the United Kingdom generally, but showery on the north-east coasts of Great Britain. Cloudy over the greater part of the Continent, with fog at several of the Scandinavian stations, and rain over Denmark, Germany, the Netherlands and the central parts of France, as well as in Finland. Fine over the Spanish Peninsula and central Italy. Showers falling later in the east and south-east of England, and considerable quantities of rain in Germany and the east of France; thunderstorm occurring at Dungeness and Lyons, and lightning seen at night at Valencia (Ireland).

Temperature fallen generally, but risen in France and also in Russia. Morning readings highest, 68° at Barcelona, 67° at Bilbao and Palma, and 66° at Palermo; above 60° at most of the Spanish and Mediterranean stations. Lowest, 38° at Archangel and Haparanda, 38° at Hernösand and 40° at Kuopio and Hangö. Rising during day to 60° or slightly above it in several isolated parts of the United Kingdom; exceeding 70° over southern Europe generally, and reaching 77° at Cape Béarn, Perpignan and Lisbon, and 84° at Madrid.

Wind moderate to strong from the Northward or North-Westward over our Islands, the Netherlands and the north of France, and from the South-Westward over central France and south Germany; Southerly or South-Easterly in eastern Germany; Easterly or North-Easterly in Denmark. Light from the Southward or South-Westward over western Russia and the south of Scandinavia; Easterly or North-Easterly in the north of Scandinavia; South-Westerly or Westerly in Italy; North-Easterly over the Spanish Peninsula. Subsequently backing to the Southward in the south of Ireland; shifting to the Northward and freshening over Denmark and western Germany.

Barometer highest, 30.2 ins. and upwards in an anticyclone lying to the westward of our Islands and extending over the Bay of Biscay and the Spanish Peninsula, as well as in another system over the south of Russia. Lowest, 29.6 ins. and less in a well-marked depression with its centre over north-western Germany; 29.7 ins. and less in another disturbance off the Norwegian coasts. German depression subsequently travelling slowly eastwards anticyclone over the Atlantic spreading over the greater part of our Islands.

Saturday, May 7th.

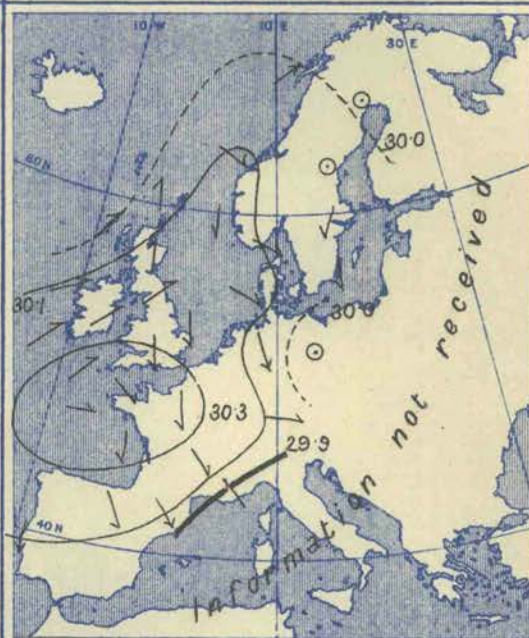
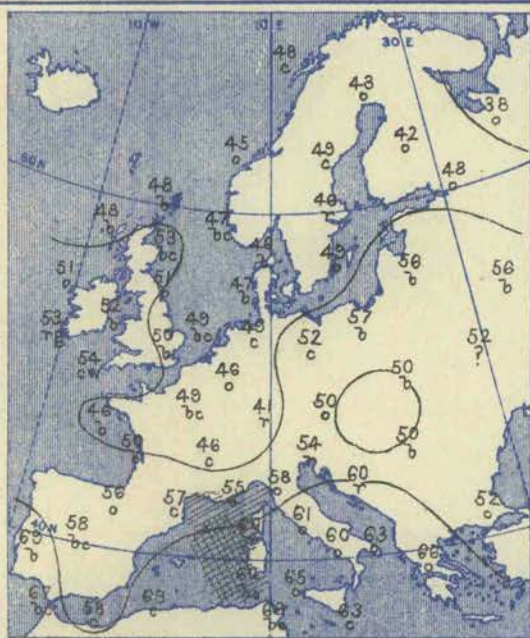
Temperature and Weather.

Barometer and Wind.

8 a.m.

8 a.m.

6 p.m.



Weather in morning fine over Great Britain, France, and Spain, as well as over Denmark, the Baltic, and the central and southern parts of Russia. Cloudy or dull elsewhere, with rain at Valencia (Ireland), and also over northern Italy, and at Breslau and Stockholm. Rain falling later over all the more western parts of our Islands, as well as in Germany and Scandinavia.

Temperature risen over the United Kingdom, and also over Greece and southern Italy, fallen in most other localities. Morning readings highest, 69° at Lisbon and Algiers, 68° at Barcelona and Sfax, and 67° at San Fernando; above 60° at the Mediterranean and Spanish coast stations generally. Lowest, (1) 37° at Uleaborg, 35° at Archangel, and 42° at Kuopio; (2) 41° at Munich and 44° at Belfort. Rising during day to 60° and upwards in many parts of Great Britain, and to 65° at Loughborough; exceeding 65° in the extreme south of France, and reaching 82° at Lisbon.

Wind light to moderate from the Southward in the west and north of our Islands, and from the South-Westward or Westward in the west of Norway. Northerly over England, France, the Netherlands, Denmark, and the south of Scandinavia, but South-Westerly over the central and southern parts of Germany, and South-Easterly or Easterly in the west and south of Russia; calm over Finland and the Gulf of Bothnia. Light from between South and West over southern Italy; Easterly or North-Easterly over the northern parts of Italy and the Adriatic. Southerly or South-Westerly breezes setting in later over the whole of the United Kingdom; no important change occurring elsewhere.

Barometer highest, 30.3 ins. and upwards over England and the north and west of France; 30.1 ins. and upwards in an anticyclone covering nearly the whole of western Europe. Lowest, 29.7 ins. and less in a well-marked depression over Italy and the Adriatic; 29.8 ins. and less in a shallow disturbance over the eastern parts of Germany. Anticyclone moving slowly southwards during day, and depression beginning to skirt our own north-western coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isohars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: ————— = a heavy gale; ———— = a gale; ——— = a fresh to strong breeze; ——— = a light to moderate breeze; and ○ = a calm. In the left-hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week barometrical pressure remained highest over northern Europe, an area of comparatively high readings being found, however, over Morocco and the south of Spain. On the 1st the depression which had travelled northward across our Islands at the close of the previous week passed away to the north-west of Scotland, but on the following day a new disturbance appeared off our south-west coasts and spread quickly north-eastward, heavy rain falling in most parts of the United Kingdom and France, with an Easterly gale in the north of Ireland.

The northern anticyclone now began to move southwards, and eventually settled down over the south of Russia. As a result of this change the depression off our south-west coasts was enabled to travel northwards and north-eastwards, while other disturbances appeared over central Europe, the weather becoming rainy and unsettled over the western and central countries generally, with considerable falls of rain in places, and with a Southerly gale on our western coasts on the night of the 2nd. On the 5th the depression over our Islands gradually dispersed off the north-east of Scotland, but a new disturbance appeared in the south-west the latter ultimately moving eastwards across England, the Netherlands and Germany, and occasioning heavy falls of rain in many places. In its rear the wind veered to the North-Westward or Northward over western Europe generally, with finer weather, but at the close of the week it was again backing to the Southward over the whole of our Islands, with rain in the extreme west and north, these changes being due to a depression which was skirting the Irish and Scotch coasts. Complex disturbances were also appearing over Italy and the Mediterranean, and the conditions over the whole of Europe were extremely unsettled.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 104.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	44.9	?	41	?	WESTBOURNE (Emsworth)	37.9*	- 9.7	37*	- 10
STRATHPEFFER SPA	41.3	+ 4.1	38	+ 3	WATERGATE (Emsworth)	22.6	?	22	?
EDINBURGH	43.9	+ 11.1	41	+ 11	BRIGHTON	37.2	- 8.8	36	- 8
MORPETH	38.8	?	36	?	EASTBOURNE	41.8	- 3.8	40	- 4
NEWCASTLE-ON-TYNE	33.8	?	32	?	VENTNOR HOSPITAL	40.5	?	39	?
OSWALDKIRK (Yorkshire)	35.0	- 0.9	33	0	SOUTHPORT	51.1	?	48	?
SHEFFIELD	35.8	?	34	?	COLWYN BAY	?	?	?	?
WORKSOP	33.3	- 1.0	32	- 1	TENBY	40.5*	- 7.5	39*	- 9
THURCASTON (Leicestershire)	31.3	- 4.1	30	- 6	NEWQUAY	41.5	- 3.3	40	- 4
HOLLESLEY BAY	?	?	?	?	TORQUAY	40.8*	- 4.2	40*	- 4
PLUMSTEAD COMMON	18.5	?	18	?	GUERNSEY	42.3*	- 10.0	41*	- 11
MARGATE	38.2	- 1.8	37	- 1					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C. ; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH
88 & 90, WEST NILE STREET, GLASGOW ; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 19.]
Third Series.

WEEK ENDING SATURDAY, MAY 14TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE
UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 110.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH .	59	26	49.3	36.6	42.6	5 below	Day-deg. 27	Day-deg. -11	Day-deg. 15	Day-deg. +7	Day-deg. 347	Day-deg. +86	Day-deg. 376	Day-deg. -228
	1. SCOTLAND, EAST .	65	28	52.4	37.9	45.1	3 below	39	-7	11	+3	425	+89	401	-237
	2. ENGLAND, N.E. .	61	30	54.0	41.1	47.2	1 below	40	-5	3	-2	456	+131	326*	-216
	3. ENGLAND, EAST .	61	33	55.7	43.0	49.0	1 below	49	-10	0	-5	491	+65	406	-201
	4. MIDLAND COUNTIES	64	34	57.0	43.0	49.5	1 below	53	-8	0	-6	519	+62	396	-215
	5. ENGLAND, SOUTH .	69	32	57.4	45.3	51.0	0 (average)	63	-3	0	-1	556*	+75	234	-239
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST .	62	28	53.0	40.1	46.2	2 below	37	-14	5	0	463	+100	237	-218
	7. ENGLAND, N.W. .	61	34	53.5	42.9	47.9	2 below	41	-13	0	-4	475*	+103	215	-237
	8. ENGLAND, S.W. .	65	34	56.2	44.5	50.0	1 below	56	-4	0	-2	570	+78	205	-154
	9. IRELAND, NORTH .	63	31	54.3	41.6	47.6	2 below	41	-12	1	-2	533	+96	224	-166
	10. IRELAND, SOUTH .	64	31	55.6	44.5	49.7	1 below	54	-6	0	-2	660	+105	165	-131
	-CHANNEL ISLANDS.	60	44	55.8	47.5	51.4	1 below	66	0	0	0	778	+184	55	-93

DISTRICTS. (See p. 110.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH .	6	10ths of in. 10	10ths of in. 4 more	106	+17	24.4	+7.1	35	-1	31	-1	380	+14	26	+1	
	1. SCOTLAND, EAST .	5	7	2 more	79	+10	9.8	-0.2	33	-5	30	-5	417	+9	29	+1	
	2. ENGLAND, N.E. .	5	4	0 (average)	69	+2	6.9	-1.0	31	-8	28	-8	407	+7	28	0	
	3. ENGLAND, EAST .	6	5	1 more	63	-3	5.9	-1.8	31	-13	29	-13	456	-16	30	-2	
	4. MIDLAND COUNTIES	6	5	1 more	64	+2	6.0	-2.6	36	-5	33	-5	423	+7	29	0	
	5. ENGLAND, SOUTH .	6	11	7 more	60	-1	6.8	-2.5	35	-11	33	-11	452	-7	32	-1	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST .	5	8	3 more	90	+15	15.3	-1.4	40	+2	36	0	430	+29	31	+2	
	7. ENGLAND, N.W. .	6	13	9 more	75	+7	11.9	+1.7	40	0	37	0	473	+79	34	+6	
	8. ENGLAND, S.W. .	5	9	4 more	72	+4	11.1	-1.7	40	-7	37	-8	535	+14	36	+1	
	9. IRELAND, NORTH .	6	8	3 more	93	+14	13.2	+1.2	38	-1	35	-2	447	+39	31	+3	
	10. IRELAND, SOUTH .	5	8	2 more	70	-3	13.1	-0.5	36	-7	33	-8	480	0	33	0	
	-CHANNEL ISLANDS.	6	12	9 more	83	+8	8.6	-2.5	35	-18	34	-20	578	-8	39	0	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period again was very changeable, frequent showers or steady rain alternating with intervals of clear sky. Thunder and lightning were experienced in some parts of north-eastern and south-eastern England on Thursday.

Temperature was just equal to the mean in England S., but below it in all other districts; the deficit was slight generally, but amounted to 5° in Scotland E., and to 5° in Scotland N. The highest of the maxima occurred during the earlier days of the period, and ranged from 69° in England S. (at Southampton), to 59° in Scotland N. The lowest of the minima, which were recorded on the 13th, ranged from 26° in Scotland N., 28° in Scotland E., 30° in England N.E. and 31° in Ireland, to 34° over the central and western English districts and to 44° in the Channel Islands.

Rainfall was more than the mean in all districts excepting England N.E. The excess was very slight over the eastern and central parts of Great Britain, rather considerable in most other places, and large in England S., the Channel Islands, and England N.W.

Bright Sunshine just equalled the mean in England N.W. and Scotland W., but was less in all

other districts, the deficit being most striking in England E. and S. and the Channel Islands. The percentage of the possible duration ranged from 37 in England N.W. and S.W. to 23 in England N.E.

Barometer and Wind.—During the whole of this period depressions continued to pass over different parts of the Kingdom from the Atlantic, causing the wind to vary from between South-West and North-West or North, and at times to increase considerably in force. The centre of the most important disturbance had reached the east coast of Scotland on Wednesday from the west-north-westward, and after moving in a similar direction to the central parts of the North Sea, travelled finally in a northerly direction and disappeared over Norway. During its presence in our neighbourhood the winds increased to a moderate to fresh gale from the Westward over the more southern and south-western districts, and to an Easterly to Northerly gale in the extreme north-east of Scotland. At the end of the period a very shallow low-pressure area, moving slowly eastwards, completely covered the major part of Great Britain.

II.—DATA from which the SUMMARY on page 109 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
0. SCOTLAND, N.	Sumburgh Head	52	34	47.0	38.0	42.2	- 2.3	18	11	6	0.63	0.23	*	*	*
	Stornoway	55	32	47.6	36.3	41.6	- 4.8	16	21	6	1.22	+ 0.66	34.3	- 7.0	30
	Wick	59	30	51.4	37.0	43.8	- 2.7	34	14	6	0.62	+ 0.20	*	*	*
	Laing	58	26	49.2	34.1	41.1	- 5.4	20	29	5	0.72	+ 0.23	*	*	*
	Glencarron	51	30	47.0	34.7	40.5	- 6.7	14	27	6	1.71	+ 0.72	*	*	*
	Fort Augustus	58	31	51.7	38.0	44.4	- 4.6	34	11	6	0.69	+ 0.19	32.9	+ 5.0	29
	Fort William	56	32	51.2	38.4	44.4	- 4.9	32	10	5	1.08	+ 0.28	40.9	+ 3.2	37
1. SCOTLAND, E.	Nairn	61	28	51.9	36.7	43.8	- 4.6	35	15	5	0.76	+ 0.40	*	*	*
	Aberdeen	65	34	51.0	38.9	44.6	- 2.9	31	9	6	0.79	+ 0.35	38.3	- 2.7	34
	Braemar	56	?	47.8	?	?	?	?	?	6	0.62	+ 0.10	25.2†	-12.7†	22†
	Ochertyre	64	29	55.3	36.7	45.4	- 3.5	46	15	2	0.89	+ 0.39	*	*	*
	Leith	62	34	55.7	40.4	47.6	- 1.6	46	4	4	0.44	+ 0.10	*	*	*
2. ENGLAND, N.E.	Marchmont	60	30	52.7	36.7	44.2	- 3.1	38	15	2	0.52	- 0.01	37.3	- 1.2	34
	Alnwick Castle	61	30	53.0	39.7	46.0	- 0.6	38	6	5	0.46	0.00	*	*	*
	Durham	61	33	55.2	39.3	46.8	- 1.1	45	8	6	0.35	- 0.05	31.5	- 4.7	29
	Shields	61	34	53.7	40.9	46.9	- 0.5	39	3	5	0.42	+ 0.04	*	*	*
	Scarborough	60	34	55.3	41.4	47.9	- 2.0	44	2	5	0.43	+ 0.05	30.9	- 3.8	28
3. ENGLAND, E.	York	59	38	53.0	44.0	48.2	- 0.2	43	0	6	0.49	+ 0.16	*	*	*
	Spurn Head	57	33	54.8	42.0	48.0	- 1.7	42	0	6	0.49	+ 0.09	29.6	-14.9	27
	Hillington	57	35	53.7	43.3	48.2	- 0.7	43	0	4	0.56	+ 0.18	*	*	*
	Yarmouth	58	34	55.3	41.9	48.2	- 1.3	44	0	6	0.64	+ 0.28	29.8	-17.2	28
	Geldeston	61	34	58.0	44.0	50.6	- 0.6	60	0	6	0.56	+ 0.16	36.6	- 6.4	34
	Cambridge	61	35	56.5	43.8	49.8	0.0	55	0	6	0.29	- 0.19	28.2	-13.6	26
4. MIDLAND COUNTIES	Rothamsted	61	35	56.5	43.8	49.8	0.0	55	0	6	0.29	- 0.19	28.2	-13.6	26
	Bawtry (Hesley Hall)	59	35	56.4	42.7	49.1	- 1.7	50	0	4	0.42	+ 0.02	*	*	*
	Loughborough	61	36	58.0	43.9	50.5	- 0.8	60	0	6	0.40	- 0.01	*	*	*
	Stamford (Duddington)	59	34	55.7	42.7	48.8	- 1.9	48	0	6	0.43	- 0.03	*	*	*
	Cheadle	58	35	53.9	41.0	47.1	- 1.4	40	3	6	0.87	+ 0.38	*	*	*
	Shirley (near Solihull)	63	35	57.6	43.0	49.9	- 0.5	55	0	7	0.69	?	*	*	*
	Churchstoke	?	34	?	43.3	?	?	?	?	4	0.62	+ 0.19	*	*	*
	Hereford	63	34	58.7	42.7	50.2	+ 0.8	57	0	5	0.30	- 0.15	42.0	- 1.5	39
	Cirencester	64	34	58.4	44.7	51.1	+ 0.1	64	0	6	0.24	+ 0.14	35.8	- 6.1	33
5. ENGLAND, S.	Oxford	64	34	58.4	44.7	51.1	+ 0.1	64	0	6	0.24	+ 0.14	35.8	- 6.1	33
	London	62	34	58.6	45.4	51.6	- 0.7	67	0	6	0.52	+ 0.13	32.4†	- 4.8†	31†
	North Foreland	60	39	55.9	44.9	50.1	+ 0.6	57	0	7	1.19	?	*	*	*
	Cranley	65	32	58.4	44.7	51.1	- 0.3	64	0	7	1.12	?	*	*	*
	Dungeness	63	35	55.6	45.4	50.2	- 0.5	57	0	7	0.98	+ 0.66	*	*	*
	Hastings (St. Leonards)	62	35	55.6	44.4	49.7	- 1.2	54	0	7	2.25	+ 1.90	33.7	-16.5	32
	Southampton	62	36	61.4	46.3	53.4	+ 1.1	80	0	6	0.94	+ 0.54	40.0	- 6.5	38
	Hurst Castle	63	46	57.4	48.3	52.6	+ 1.2	74	0	5	0.91	+ 0.56	*	*	*
	Shaftesbury	61	35	56.0	43.2	49.2	- 0.6	50	0	6	0.61	+ 0.08	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	55	31	51.0	38.9	44.6	- 4.9	31	9	6	0.99	+ 0.19	*	*	*
	Glasgow	59	33	52.9	40.5	46.3	- 2.4	36	4	3	0.60	+ 0.14	39.7	+ 5.2	36
	Ardrossan	57	35	52.7	41.6	46.8	- 2.7	35	1	4	0.43	- 0.02	*	*	*
	Glenlee	62	28	53.4	37.6	45.0	- 3.5	39	12	5	0.90	+ 0.30	*	*	*
	Gilcrux (Cumberland)	56	32	52.6	40.1	46.0	- 2.0	36	5	6	1.04	?	34.0	?	31
	Douglas (Isle of Man)	61	36	55.4	41.8	48.2	- 0.8	44	1	6	1.02	+ 0.57	45.4	- 2.4	42
	Stonyhurst	57	38	52.1	42.6	47.1	- 2.2	36	0	5	1.61	+ 1.07	35.5	- 4.5	33
7. ENGLAND, N.W.	Blackpool	58	37	54.1	42.5	48.0	- 1.7	42	0	6	1.43	+ 1.03	43.2	+ 3.1	40
	Manchester (Prestwich)	58	34	53.2	42.0	47.3	- 1.7	37	0	5	1.51	+ 1.03	31.8	?	29
	Liverpool Obsy. (Bidston)	57	38	53.1	41.6	47.0	- 3.7	37	1	6	1.01	+ 0.66	*	*	*
	Llandudno	58	42	54.1	44.4	49.0	- 1.7	49	0	5	1.23	+ 0.84	41.4	+ 0.6	38
	Holyhead	61	41	54.1	44.1	48.8	- 1.4	48	0	6	1.13	+ 0.73	*	*	*
	Llandoverly	63	34	58.4	41.9	49.7	- 0.4	54	0	6	1.36	+ 0.79	*	*	*
8. ENGLAND, S.W.	Pembroke	54	40	52.1	43.4	47.5	- 2.0	39	0	4	0.47	+ 0.08	42.1	- 5.9	39
	Clifton	61	41	56.9	46.0	51.1	+ 0.8	64	0	5	0.51	+ 0.02	*	*	*
	Arlington (N. Devon)	56	38	53.9	42.1	47.7	- 1.8	40	0	5	1.56	+ 0.98	*	*	*
	Cullompton	63	37	59.7	45.3	52.1	+ 1.0	71	0	5	0.46	- 0.06	44.7	+ 2.7	42
	Falmouth	61	41	56.2	46.4	51.0	- 0.1	63	0	6	0.99	+ 0.39	42.6	- 6.4	41
	Plymouth	65	40	57.4	45.7	51.2	- 1.2	64	0	5	0.77	+ 0.32	35.0	-11.2	33
	Prawle Point	58	39	54.9	45.1	49.7	- 0.3	54	0	5	1.05	+ 0.75	*	*	*
	Malin Head	54	38	50.9	42.7	46.6	- 2.4	32	0	7	1.35	?	*	*	*
	Londonderry	58	34	54.4	41.2	47.4	- 3.1	41	2	6	1.02	+ 0.56	*	*	*
9. IRELAND N.	Edenfel (Omagh)	57	32	54.0	40.7	47.0	- 1.3	40	4	6	0.77	+ 0.27	*	*	*
	Belmullet	55	37	52.4	43.6	47.7	- 2.5	40	0	7	0.61	+ 0.08	*	*	*
	Markree Castle	57	31	54.1	40.8	47.1	- 1.5	41	3	7	0.64	+ 0.13	34.7	- 5.3	32
	Armagh	63	32	56.1	40.1	47.6	- 1.4	47	5	6	1.05	+ 0.57	41.4	+ 3.1	38
	Donaghadee	63	36	55.4	42.7	48.7	- 0.3	47	0	5	0.40	- 0.06	*	*	*
	Edgeworthstown	62	36	57.0	41.3	48.7	- 0.8	50	2	5	0.72	+ 0.20	*	*	*
	Dublin	64	39	55.6	44.7	49.8	- 1.1	55	0	5	0.87	+ 0.40	40.0	- 5.2	37
10. IRELAND, S.	Parsonstown	63	33	56.1	43.0	49.2	- 0.8	50	0	6	0.92	+ 0.42	36.7	- 3.3	34
	Kilkenny	64	35	56.9	43.4	49.8	- 0.6	55	0	6	0.62	+ 0.14	*	*	*
	Roche's Point	63	40	56.6	46.6	51.3	- 0.4	65	0	4	0.70	0.00	*	*	*
	Valencia	58	35	54.0	45.9	49.7	- 1.8	54	0	6	0.67	- 0.09	29.8	-15.1	28
	Killarney	60	31	56.8	44.8	50.4	- 0.6	59	0	4	0.77	?	*	*	*
	Foynes	59	34	53.2	43.0	47.8	- 2.6	41	0	6	0.83	?	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	57	44	55.1	47.0	50.8	- 0.7	62	0	6	1.10	+ 0.73	34.9	?	33
	Jersey	60	45	56.4	47.9	51.9	- 0.8	69	0	6	1.37	+ 0.98	34.5	-18.5	33

Stations marked *fit* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

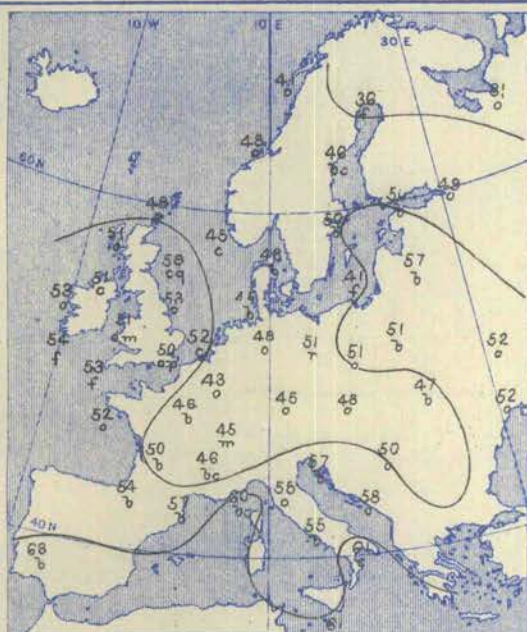
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 8th May.

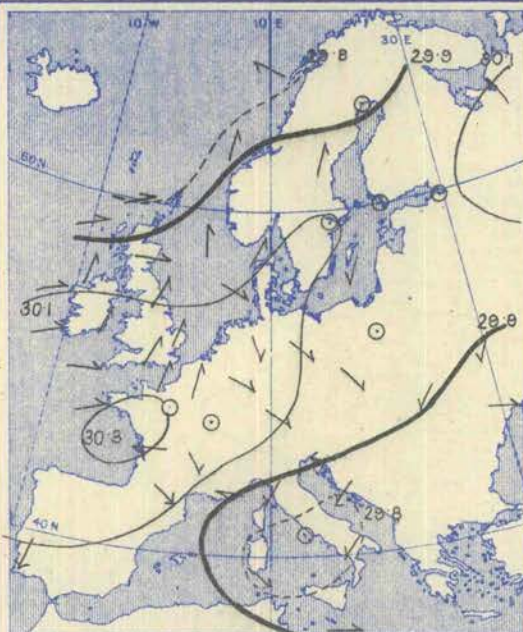
Temperature and Weather.

8 a.m.

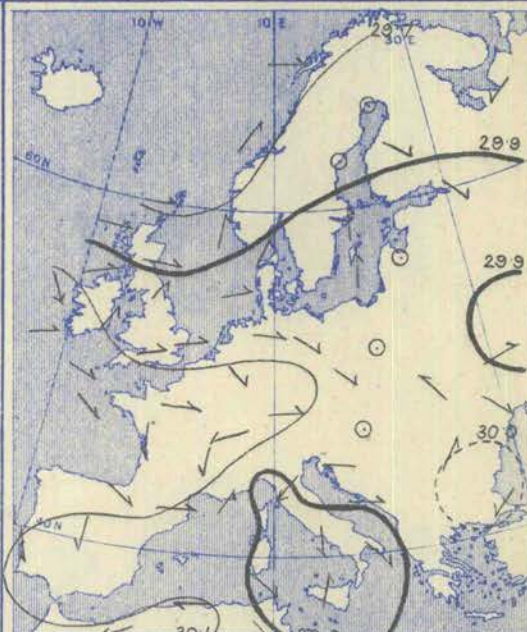


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the Spanish Peninsula and some parts of central and eastern Europe, but as a whole very changeable over all but the extreme south-western countries, with showers in many places. Rain falling later over almost all European countries, but not heavily in most places; considerable falls, however, at Palermo, Prague, Cape Gris Nez, Bodø and Archangel, and some thunder in a few places.

Temperature not changed much. Morning readings highest, 68° at Lisbon, 61° at Malta and Brindisi, 60° at Nice and considerably above 50° on the shores of the Mediterranean generally, and somewhat less high on the western coasts of France and the west and north of our Islands. Lowest, 31° at Archangel, 30° at Haparanda, 41° at Bodø and (locally) at Wisby. Rising later to between 60° and 65° over the northern half of our Islands and touching 65° at Paris, 70° at Nice, and 72° at Marseilles and Sanguinaire.

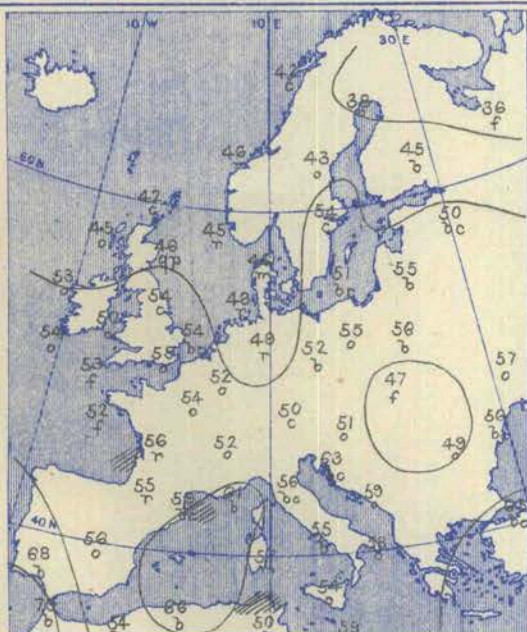
Wind light to moderate in force generally—cyclonic from between West and South-West over the northern parts of our Islands and Scandinavia, from various directions over the southern half of Russia, and also in another system over the Mediterranean; anticyclonic over the south-western and western parts of Europe only.

Barometer highest, 30.3 ins. and more to 30.1 ins. in an anticyclone covering the Bay of Biscay, France and the southern half of our Islands. Lowest, below 29.8 ins. over the Shetlands and off the coast of Finnmark and also over the southern half of Italy, with Sicily, Sardinia and the neighbouring parts of the Mediterranean and Adriatic. Falling a little more, later, in the Shetlands and Norway, rising over the Mediterranean and south-eastern Europe, but a new shallow depression appearing over the southern half of Russia.

Monday, 9th May.

Temperature and Weather.

8 a.m.

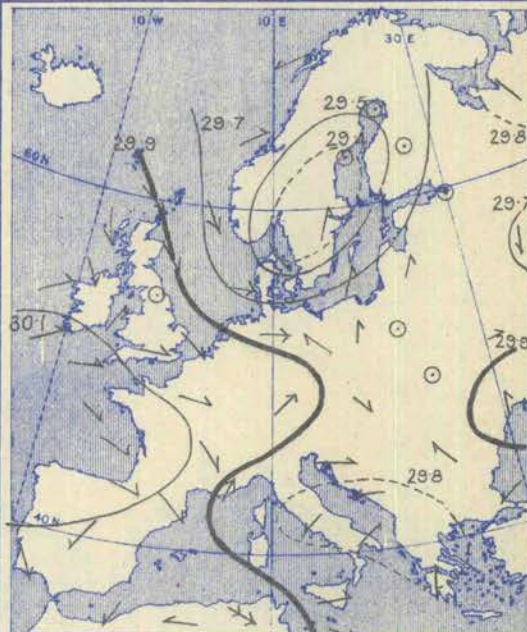


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the northern half of Russia on the one hand, and over Italy and the Riviera on the other; fair in some localities over the central and western countries, but not at all settled over Europe as a whole. Rain at several stations in France, our Islands, Germany and Scandinavia. Showers reported later in most districts, but amounts of rainfall not large except at Brindisi, Kiev and also at Haparanda.

Temperature in morning highest, above 60° over several parts of southern Europe; 55° to 50° over France, Ireland and England as a whole, as well as over Germany, the Baltic and west of Russia. Lowest, 36° at Archangel, 42° at Bodø and Sumburgh Head, 45° at Stornoway, 46° at Aberdeen. Rising later to 60° and more in some parts of Ireland and England to 64° at Lorient, 70° at Nice and 73° at Sicily, but falling rapidly in the north of Scotland at night. Sharp frost at Nairn and Wick.

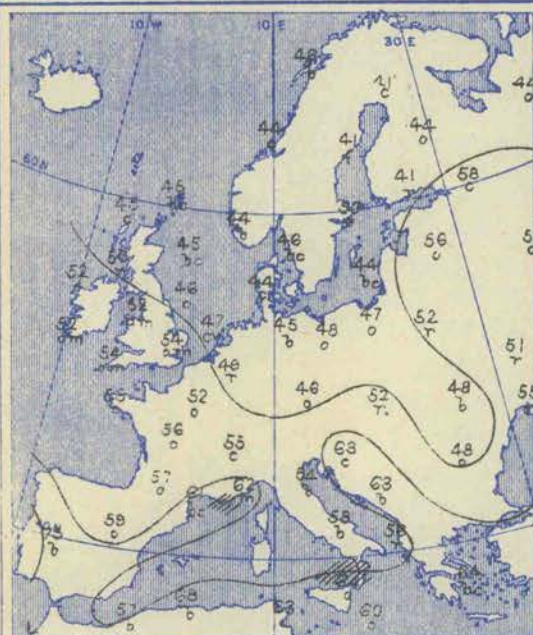
Wind light to moderate in force, (1) cyclonic from between South-West and North-West over the northern half of Europe, and from East, North and North-West in the south; (2) anticyclonic from North-West and North over Spain, the Bay of Biscay and west of France, and from very various directions over central Europe and the south of Russia. No decided change later beyond a tendency to "back" towards South-West at our western stations.

Barometer highest, (1) 30.2 ins. and more to 30.0 ins. in an anticyclonic system spreading in from the Atlantic over France and south Germany, and (2) 30.0 ins. and more over the Black Sea. Lowest, (1) 29.6 ins. and less to 29.6 ins. in a depression over Norway and Sweden, and (2) 29.8 ins. to 29.9 ins. in a large shallow system over Italy, Sicily and the south-eastern parts of the Mediterranean. Rising later over Norway and Scotland, but beginning to fall again in Ireland.

Tuesday, 10th May.

Temperature and Weather.

8 a.m.

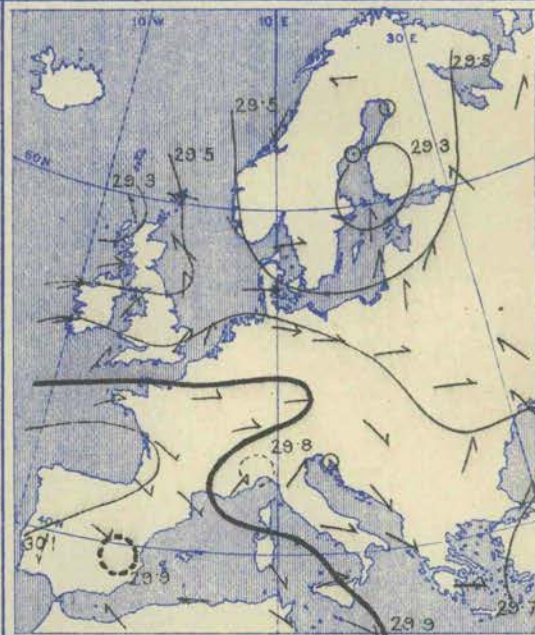


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright at many of the Mediterranean stations and at Lisbon, also in the west of Norway and over Scotland, but not at all settled either over Continental Europe or over our Islands. Rain falling later all over the British Isles, and in many parts of France, Germany and northern Europe and amounts large in a few localities; weather becoming very squally over the British Islands at night.

Temperature risen over central Europe and Russia. Morning readings highest, 68° at Barcelona and Algiers, and above 60° at many of the Mediterranean stations; 56° at Rochefort and at Vienna, 55° to 50° over the southern half of our Islands, 51° at Moscow. Lowest, 41° at Haparanda, 45° at several of the Scotch stations, 46° at Shields and Spurn Head. Rising later to between 60° and 63° over many parts of England, and to between 55° and 60° over Ireland; touching 62° at Paris, 72° at Perpignan, Nice, Palermo and Rome.

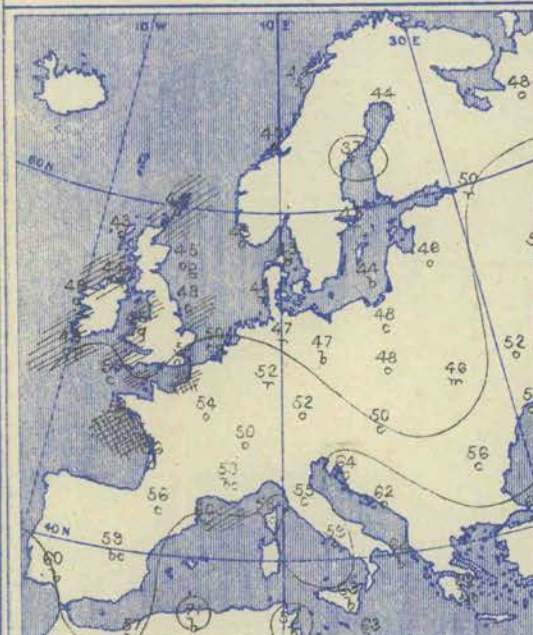
Wind light and anticyclonic from between North-West and North over south-western Europe, and from South-East over Hungary and the south of Russia. Cyclonic over northern Europe—moderate to strong in force, and becoming so from between South-West and South-East, moderate on our own west and north-west coasts. Blowing a very strong squally breeze later—from the Westward over Ireland, England and the west and north of France, and from East over Caithness.

Barometer highest, 30.1 ins. and more to 29.9 ins. over Spain, France, and the southern half of our Islands, and exceeding 29.9 ins. in the south-east of Russia also. Lowest, 29.3 ins. and less to 29.4 ins. in a depression over Sweden, and below 29.7 ins. off our extreme north-west coasts. A very local "V" shaped disturbance over North Wales and part of the north-west of England. A new and well-marked depression approaching Scotland later from the west-north-westward and causing a rapid fall of the barometer in that country.

Wednesday, 11th May.

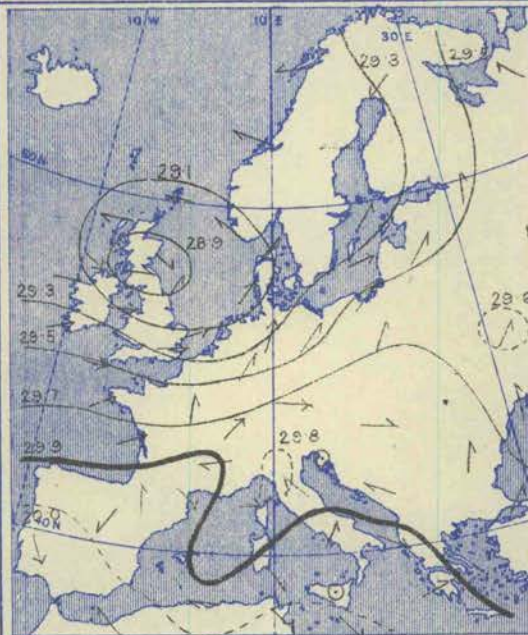
Temperature and Weather.

8 a.m.

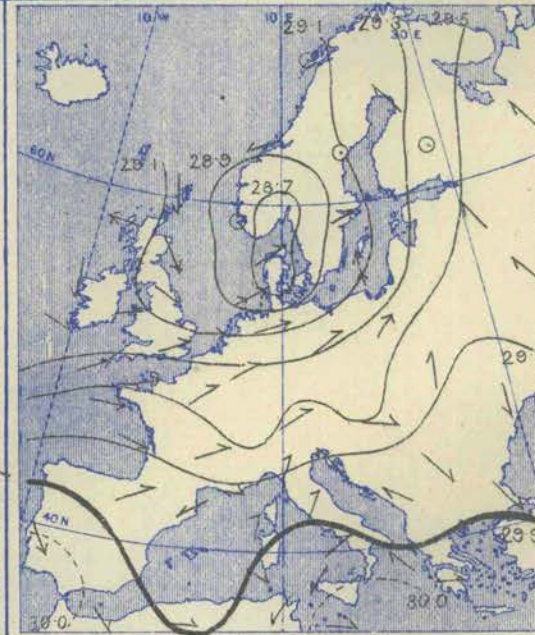


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning changeable and unsettled over north-western, western and central Europe as well as over the northern parts of the Mediterranean, with squally showery conditions in many places; fine over south-western Europe and the southern half of the Mediterranean. Rain falling later over central, western and north-western Europe very generally. Very heavily over the south and east of France and in a few localities in northern Europe; sleet and hail in the east of Scotland, but much bright sunshine recorded over the east of England.

Temperature fallen somewhat over the British Islands and several parts of Continental Europe. Morning readings highest, 71° at Algiers, 68° at Barcelona, and above 60° at many stations in the Mediterranean and Adriatic; 56° to 54° in the west of France, 54° at Paris, 51° to 49° over the southern counties of England. Lowest, 37° at Hernösand, 41° at Wick, 42° at Nairn, 44° at Leith and York, and also at the stations in Lapland. Failing to reach 60° over our Islands during day, but touching 63° at Munich and at Biarritz, 73° at Cetta and 79° at

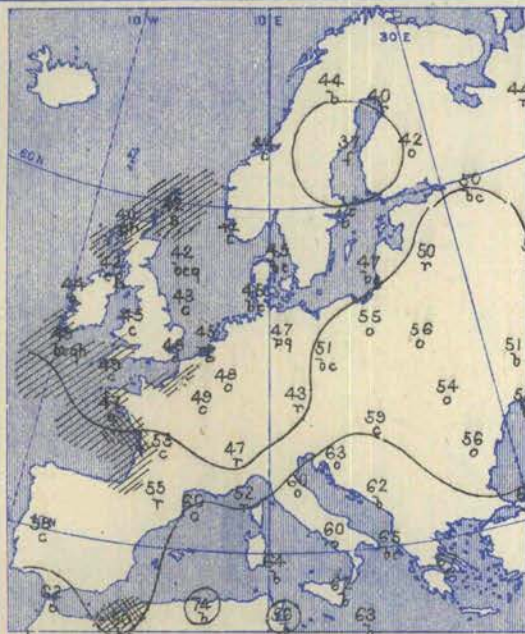
Wind cyclonic and very strong and squally over our Islands—Westerly over the southern half of the Kingdom, and North-Easterly in the north. South-Westerly, moderate to fresh, over Germany, Easterly, moderate to light, over the northern half of Scandinavia. Very variable, moderate to light, over southern Europe and the Mediterranean, but cyclonic in direction at the stations in the south-east of France, Corsica and north-west of Italy.

Barometer highest, 30.0 ins. to 29.9 ins. over the Iberian Peninsula and the southern parts of the Mediterranean. Lowest, below 29.9 ins. in a well-marked depression over Scotland, and below 29.2 ins. in another over Sweden. Below 29.3 ins. in a third (shallow) disturbance over the Gulf of Genoa and south-east of France. The Scotch depression moving eastwards and north-eastwards later, and a "V" shaped secondary forming over Ireland.

Thursday, 12th May.

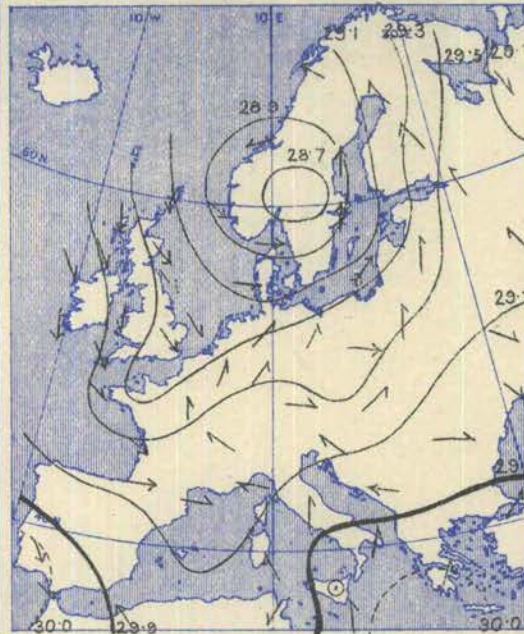
Temperature and Weather.

8 a.m.

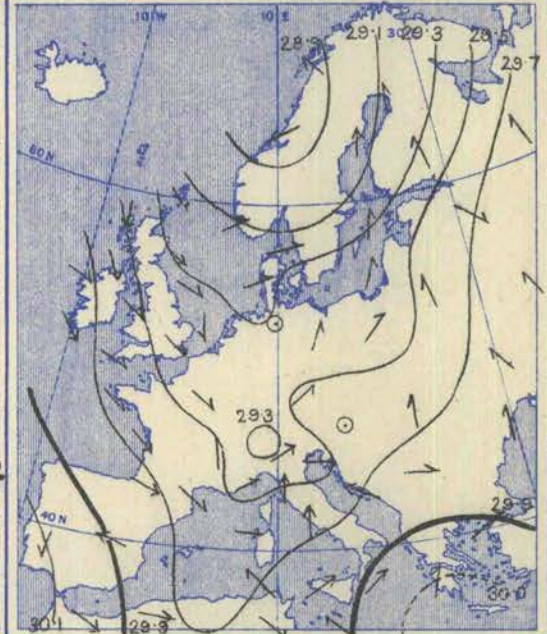


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning changeable and showery over the greater part of our Islands, with hail and sleet in the north of Scotland. Cloudy or dull at most of the Continental stations, with rain over south Germany, central and southern France, as well as over the Baltic Provinces and the extreme northern parts of Sweden and Russia. Fine over the Mediterranean and the extreme south of Russia. Rain or passing showers occurring during day in nearly all parts of western and northern Europe, heavily in a few localities; thunder and lightning occurring at several stations, and thunder heard at Lyons.

Temperature fallen in most of the western countries, but risen elsewhere. Morning readings highest, 74° at Algiers and La Calle, 67° at Patras, and 65° at Brindisi and Oran; above 60° at the Mediterranean and Adriatic stations generally. Lowest, (1) 37° at Hernösand and 40° at Haparanda; (2) 40° at Stornoway, Wick and Nairn; below 45° at many of our own northern stations. Daily maxima below 45° in the north of our Islands generally, and scarcely reaching 55° in the south. Thermometer exceeding 55° in France, and touching 61° at Perpignan, 63° at Lisbon, 75° at Brindisi, and 80° at Palermo. Ground frost occurring over the inland parts of England at night.

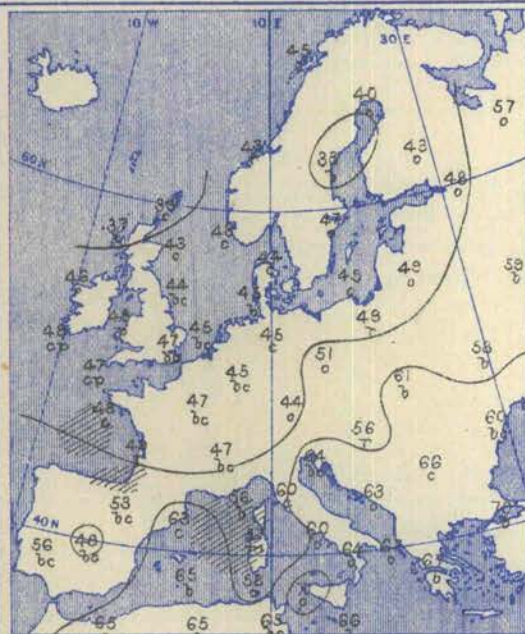
Wind Northerly or North-Westerly in our Islands, and fresh or strong in force on many parts of our western and extreme northern coasts. Strong from the Westward or North-Westward in the west of France, light to fresh from the South-Westward over central France, the Netherlands and Germany. Strong from the Westward in Denmark and the south of Norway; Southerly or South-Westerly gales reported in the south of Sweden, light to moderate South-Easterly winds over Finland and the north of Scandinavia. Variable in Austria and the south of France; Southerly or South-Westerly in Italy. Gale moderating later in the south of Sweden; no important change occurring elsewhere.

Barometer highest, 30.0 ins. and upwards in two areas—one lying off the south of Spain and the other over the eastern parts of the Mediterranean. Lowest, 29.7 ins. and less in a well-marked depression over the south of Scandinavia, 29.3 ins. and less in a "V"-shaped secondary system moving south-eastward across the Channel and south-east of England. Scandinavian depression subsequently moving northwards. Secondary disturbance passing south-eastward and filling up.

Friday, 13th May.

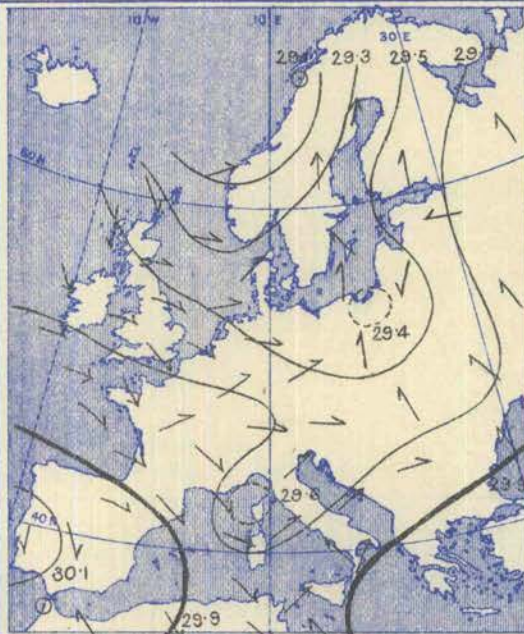
Temperature and Weather.

8 a.m.

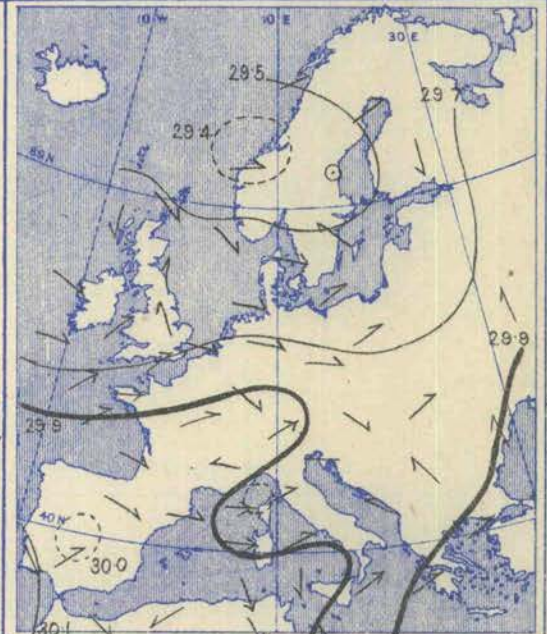


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still fine and bright over the Spanish Peninsula, as well as over the extreme south-east of Europe, but changeable and unsettled elsewhere, though temporarily clear in several localities. Rain falling later over nearly the whole of north-western, northern and central Europe, the amounts being considerable at some stations in Wales and the south of England, and also in Finland.

Temperature fallen over central Europe and many parts of the Mediterranean. Morning readings highest, 71° at Palermo and above 65° on many of the coasts on the southern side of the Mediterranean; 66° at Hermanstadt, 61° at Lemberg, 59° at Moscow, and 57° at Archangel. Lowest, 37° at Stornoway, 38° at Sumburgh Head, 43° at Aberdeen, Liverpool and Spurn Head, 45° at Yarmouth and Cuxhaven. Not touching 60° later in any part of our Islands, but exceeding that point in the west of France and exceeding 70° in many parts of southern Europe, the highest reading of all being 81° at Palermo.

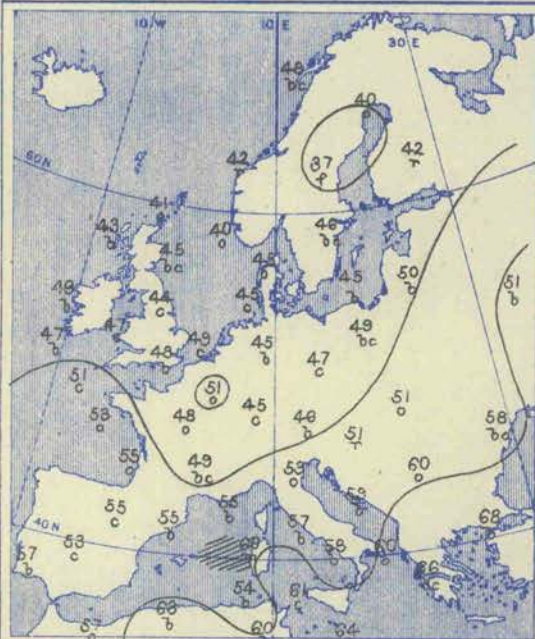
Wind (1) light to moderate from the North-Westward over the United Kingdom, and from North-West and West over France and Germany; (2) light from South-East and South over Russia, Finland and the Gulf of Bothnia; (3) a well-marked cyclonic circulation over the Mediterranean and Adriatic causing South-Westerly gales in some places; (4) anticyclonic circulation prevalent over the Spanish Peninsula and also over the extreme south-east of Europe. Varying a good deal in direction from between South-West and North-West in several localities later, and shifting to East at Malin Head.

Barometer (1) 30.1 ins. and more to 29.9 ins. over the Iberian Peninsula and Morocco; (2) 30.0 ins. to 29.9 ins. over Greece, Asia Minor and the south of Russia. Lowest, (1) below 29.1 ins. over the north-west of Norway, and below 29.5 ins. in a large "hollow" covering the whole of Scandinavia, the Baltic and north Germany; (2) below 29.6 ins. in a small disturbance over the Gulf of Genoa, the south-east of France and northern Italy. A very shallow "V"-shaped disturbance advancing later over our Islands from the westward.

Saturday, 14th May.

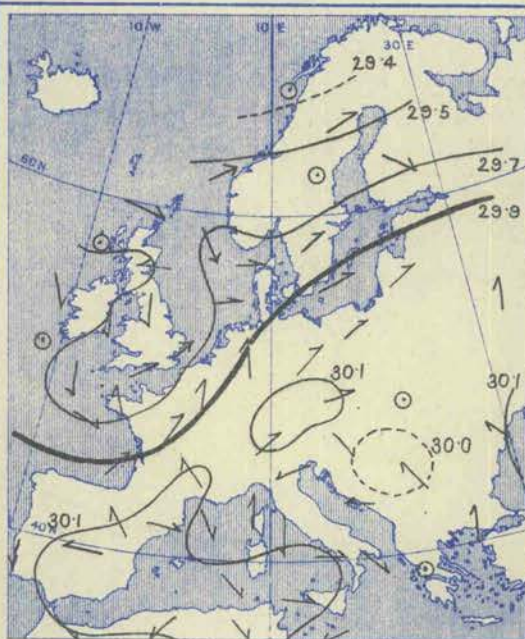
Temperature and Weather.

8 a.m.

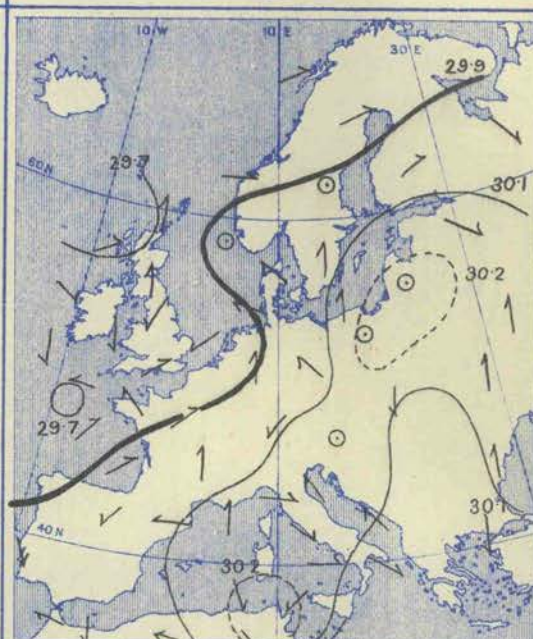


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands, but dull and rainy in the extreme south-east of England and the neighbouring parts of the Continent. Fine over southern Europe and also over the Baltic; cloudy or dull over the northern and central countries as a whole, with rain in Finland and also at Christiansund and Buda Pesth. Weather improving later in the south-east of England, but showers falling on our extreme north and north-west coasts. Heavy rain setting in at night over the English Channel and the north of France.

Temperature fallen in Germany, Austria and Italy, but risen in most other countries. Morning readings highest, 68° at Constantinople, 66° at Patras, and 64° at Malta; above 55° over southern Europe generally, and also over central Russia. Lowest, 37° at Herneband, and 40° at Haparanda and Uleaborg. Lowest in our Islands, 41° at Sumburgh Head, and 43° at Stornoway and Nairn. Daily maxima below 55° at most of our own northern stations, but thermometer reaching 60° or more in some parts of central and southern Europe. Exceeding 65° over southern Europe generally, and reaching 77° at San Fernando.

Wind light to moderate from the Northward over the north of England, and the west of our Islands generally, from the Westward in Brittany, and from the South-Westward or Southward over central France, the east and south-east of England, the Netherlands, Germany, the Baltic and the greater part of Scandinavia; calm or variable in Scotland. Variable over southern Europe generally, but Westerly or North-Westerly in the southern parts of France and Italy. Subsequently shifting to the Eastward or North-Eastward on our own south-west coasts; no important change occurring elsewhere.

Barometer highest, 30.1 ins. and upwards in an anticyclone lying over Spain, the south of France and the western parts of the Mediterranean, and also in smaller areas over south-eastern Germany and the south of Russia. Lowest, 29.4 ins. and less in a depression over the northern parts of Scandinavia; 29.7 ins. and less in a secondary system extending Southwards over the greater part of our Islands. Secondary disturbance moving North-Eastwards later and partially filling up, but shallow depression appearing off mouth of English Channel in evening.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\Rightarrow$ = a heavy gale; $\Rightarrow$ = a gale; $\Rightarrow$ = a fresh to strong breeze; $\Rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The most important features of pressure distribution during this week have been as follow:—(1.) High-pressure areas lying both over south-western and north-eastern Europe, while depressions appeared both over the north-western countries, and the Mediterranean, thus occasioning South-Westerly winds and showery weather over the north-western districts, and North-Easterly to North-Westerly winds and more or less rain over the Mediterranean. (2.) After Wednesday the north-eastern high-pressure system gave way, the north-western depressions became much deeper than those previously experienced, and secondary disturbances appeared over the southern parts of the British Isles and central Europe, causing still more changeable, unsettled weather in those regions and in the south of France, while over the southern parts of the Mediterranean the weather cleared up considerably.

At the close of the week showers were again general over our southern counties, but over the northern parts of the Kingdom an improvement was in progress. Temperature, however, was falling over the United Kingdom.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 110.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	32.1	?	25	?	WESTBOURNE (Emsworth)	38.8*	-11.0	37*	-10
STRATHPEFFER SPA	35.1	-3.2	31	-4	WATERGATE (Emsworth)	30.4	?	29	?
EDINBURGH	31.1	-3.8	28	-4	BRIGHTON	33.8	-13.5	32	-13
MORPETH	35.6	?	32	?	EASTBOURNE	39.0	-9.0	37	-9
NEWCASTLE-ON-TYNE	30.5	?	28	?	VENTNOR HOSPITAL	36.5	?	34	?
OSWALDKIRK (Yorkshire)	27.5	-11.5	25	-10	SOUTHPORT	47.2	?	43	?
SHEFFIELD	37.9	?	35	?	COLWYN BAY	41.0	?	38	?
WORKSOP	31.3	-5.2	29	-5	TENBY	36.8*	-12.0	34*	-13
THURCASTON (Leicestershire)	31.9	-6.9	30	-7	NEWQUAY	35.7	-10.3	34	-11
HOLLESLEY BAY					TORQUAY	40.8*	-5.7	39*	-6
PLUMSTEAD COMMON					GUERNSEY	36.8*	-19.2	35*	-20
MARGATE	27.7	-14.4	26	-13					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 20.]
Third Series.

WEEK ENDING SATURDAY, MAY 21ST, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty years 1860-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 116.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	67	29	55.5	36.6	45.5	3 below	Day-deg. 47	Day-deg. + 5	Day-deg. 15	Day-deg. + 9	Day-deg. 394	Day-deg. + 91	Day-deg. 391	Day-deg. - 219
	1. SCOTLAND, EAST	68	28	55.2	35.5	44.8	4 below	47	- 5	18	+ 13	472	+ 84	419	- 224
	2. ENGLAND, N.E.	62	30	52.7	39.7	45.8	4 below	36	- 16	6	+ 3	492	+ 115	332	- 213
	3. ENGLAND, EAST	63	31	55.2	40.5	47.5	4 below	45	- 21	4	0	536	+ 44	410	- 201
	4. MIDLAND COUNTIES	66	32	55.2	39.3	46.8	5 below	45	- 23	8	+ 4	563*	+ 33	404	- 211
5. ENGLAND, SOUTH	61	35	54.8	43.4	48.8	4 below	48	- 25	0	- 1	604	+ 50	234	- 240	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	68	30	56.5	39.2	47.3	3 below	49	- 8	8	+ 5	512	+ 92	245	- 213
	7. ENGLAND, N.W.	61	34	54.2	42.2	47.8	3 below	41	- 19	0	- 3	516	+ 84	215	- 240
	8. ENGLAND, S.W.	63	29	54.7	42.7	48.3	3 below	44	- 21	0	- 1	614	+ 57	205	- 155
	9. IRELAND, NORTH	67	31	57.1	40.8	48.5	2 below	51	- 8	3	+ 1	584	+ 88	227	- 165
	10. IRELAND, SOUTH	67	32	58.0	42.9	50.0	2 below	56	- 9	0	- 1	716	+ 94	165	- 132
	-CHANNEL ISLANDS-	59	43	55.7	47.4	51.3	2 below	65	- 7	0	0	843	+ 177	55	- 93

DISTRICTS. (See p. 116.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	10ths of in. 4	10ths of in. 2 less	109	+ 16	Ins. 24.8	+ 6.9	68	+ 27	58	+ 23	448	+ 42	28	+ 3
	1. SCOTLAND, EAST	3	5	0 (average)	82	+ 8	10.3	- 0.2	54	+ 14	47	+ 11	471	+ 23	30	+ 1
	2. ENGLAND, N.E.	4	9	4 more	73	+ 2	7.9*	- 0.4	35	- 4	31	- 5	442	+ 2	28	0
	3. ENGLAND, EAST	4	7	2 more	67	- 2	6.6	- 1.5	37	- 10	33	- 10	493	- 26	31	- 1
	4. MIDLAND COUNTIES	4	9	4 more	67*	+ 1	6.9	- 2.2	37	- 5	33	- 5	461*	+ 4	30	0
5. ENGLAND, SOUTH	4	9	5 more	64	0	7.7	- 2.0	32	- 16	29	- 16	484	- 23	32	- 1	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	7	1 more	94	+ 15	16.0	- 1.4	49	+ 11	44	+ 9	479	+ 40	32	+ 3
	7. ENGLAND, N.W.	4	9	4 more	79	+ 7	12.3	+ 2.1	42	+ 1	38	0	515	+ 79	34	+ 5
	8. ENGLAND, S.W.	4	9	3 more	76	+ 4	12.0	- 1.3	41	- 7	38	- 7	576	+ 7	36	0
	9. IRELAND, NORTH	4	6	0 (average)	97	+ 13	13.8	+ 1.2	59	+ 18	53	+ 16	506	+ 58	32	+ 3
	10. IRELAND, SOUTH	4	5	1 less	74	- 3	13.6	- 0.6	49	+ 5	44	+ 3	529	+ 5	34	+ 1
	- CHANNEL ISLANDS-	4	8	4 more	87	+ 9	9.4	- 2.1	40	- 21	38	- 21	618	- 29	39	- 1

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this week varied considerably in different parts of the Kingdom. In the more southern and eastern districts, after being fair and dry generally, it became very dull and rainy towards the latter part. In the north and north-west, however, where it was unsettled and showery during the earlier days of the period, it subsequently became very fine and bright, but was again becoming rainy as the week closed.

Temperature was again below the mean, the deficit ranging from 2° over Ireland and in the Channel Islands to 4° in the eastern and southern parts of Great Britain, and to 5° in the Midland counties. The highest of the maxima, which were recorded on very irregular dates, ranged from 67° or 68° in Scotland, and from 67° over Ireland, to 61° in England S. and N.W., and to 59° in the Channel Islands. The lowest of the minima were registered, as a rule, about the middle of the week, and ranged from 28° in Scotland E., 29° in Scotland N., and England S.W., and 30° in England N.E. and Scotland W. to 35° in England S., and to 43° in the Channel Islands. The daily range of temperature was very large in the north during the latter part of the week, and extremely slight in the south.

Rainfall was less than the mean in Scotland N. and in Ireland S., and just equal to it in

Scotland E. and Ireland N. In all other districts the fall exceeded the mean, the excess in most parts of England being large.

Bright Sunshine was much above the normal in the north and north-west, but considerably less in the south and east. The percentage of the possible duration ranged from 58 in Scotland N., 53 in Ireland N., and 47 in Scotland E., to 31 in England N.E., and to 29 in England S.

Barometer and Wind.—At the commencement of the week two depressions were shown, one to the northward of Scotland, and the other over the Channel and our southern coasts. These both moved eastwards, so that the barometer rose briskly, and the wind veered to the North-Westward. By Tuesday, however, a small shallow disturbance had appeared over our North-Western districts, and the movement of this system southwards to France, followed by a decided increase of pressure and the formation of an anticyclone in the north, caused Easterly winds to set in over the whole Kingdom. At first they were moderate in force, but a further decrease of pressure over central Europe occasioned moderate to fresh Easterly and North-Easterly gales in the south and south-east, and fresh or strong breezes in most other places, and considerable rain over the southern half of the Kingdom.

* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 115 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine				
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	53	33	49.7	38.4	43.7	- 1.8	27	10	2	0.12	- 0.30	*	*	*	*
	Stornoway	63	35	55.6	37.0	45.7	- 1.8	47	14	3	0.26	- 0.32	74.8	+33.0	64	+28
	Wick	62	32	56.4	35.3	45.2	- 2.3	51	19	3	0.19	- 0.21	*	*	*	*
	Laing	67	29	58.8	32.0	44.6	- 2.9	60	28	1	0.04	- 0.46	*	*	*	*
	Glencarron	62	33	55.7	37.5	46.1	- 2.3	48	13	4	0.93	- 0.16	*	*	*	*
	Fort Augustus	64	31	54.6	36.8	45.2	- 4.3	44	15	4	0.59	+ 0.13	54.3	+26.3	47	+21
1. SCOTLAND, E.	Fort William	65	34	57.8	39.1	47.9	- 2.4	53	8	3	0.55	- 0.25	73.3	+35.1	64	+30
	Nairn	62	29	55.3	34.1	44.1	- 5.5	48	22	2	0.20	- 0.20	*	*	*	*
	Aberdeen	56	34	52.6	37.3	44.5	- 4.2	37	13	3	0.83	+ 0.37	75.8	+33.2	66	+23
	Braemar	61	28	54.1	30.5	41.6	- 4.9	34	44	4	0.32	- 0.17	56.3†	+16.5†	49†	+13†
	Ochertyre	68	30	61.3	36.6	48.2	- 2.1	66	15	3	0.53	- 0.02	*	*	*	*
	Leith	58	30	55.1	38.9	46.5	- 4.2	45	9	4	0.32	- 0.08	*	*	*	*
2. ENGLAND, N.E.	Marchmont	56	31	52.7	35.7	43.7	- 4.8	38	18	3	0.49	- 0.09	40.5	- 0.4	36	- 1
	Alnwick Castle	59	33	53.4	36.9	44.7	- 3.4	40	14	5	0.64	+ 0.14	*	*	*	*
	Durham	62	30	53.3	37.3	44.8	- 4.8	39	13	4	0.66	+ 0.18	37.7	- 1.1	33	- 1
	Shields	57	35	51.3	39.3	44.9	- 3.8	32	8	3	0.95	+ 0.55	*	*	*	*
	Scarborough	59	36	50.3	40.5	45.1	- 4.6	28	4	3	1.36	+ 0.89	37.8	?	34	?
	York	61	36	55.3	39.9	47.1	- 4.1	45	6	4	1.17	+ 0.72	32.4	- 9.5	29	- 9
3. ENGLAND E.	Spurn Head	54	40	52.3	44.3	48.1	- 1.6	43	0	2	0.36	- 0.03	*	*	*	*
	Hillington	61	31	56.8	40.1	48.0	- 3.3	50	5	3	0.36	- 0.09	39.8	- 7.0	36	- 7
	Yarmouth	57	34	52.4	43.0	47.4	- 3.1	38	0	4	0.18	- 0.26	*	*	*	*
	Geldeston	63	32	55.1	40.4	47.3	- 3.7	44	4	4	1.20	+ 0.78	39.5	-10.5	36	-11
	Cambridge	63	34	57.3	39.4	47.8	- 4.7	52	7	3	0.63	+ 0.19	38.5	- 5.9	35	- 6
	Rothamsted	60	35	54.6	39.8	46.8	- 4.6	43	6	4	1.08	+ 0.60	26.2	-17.8	24	-17
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	65	34	58.1	37.9	47.4	- 4.7	55	11	3	0.67	+ 0.19	*	*	*	*
	Loughborough	65	37	55.4	40.3	47.4	- 5.1	45	5	5	0.79	+ 0.31	*	*	*	*
	Stamford (Duddington)	62	33	55.6	39.0	46.8	- 5.1	46	8	5	0.86	+ 0.34	*	*	*	*
	Cheadle	58	35	51.9	40.8	46.0	- 3.9	33	3	3	0.42	- 0.12	*	*	*	*
	Shirley (near Solihull)	62	34	54.7	37.0	45.3	- 6.5	44	14	4	0.94	?	*	*	*	*
	Churchstoke	58	33	52.3	38.1	44.8	- 5.0	36	11	5	0.66	+ 0.15	35.7	- 6.2	32	- 7
5. ENGLAND, S.	Hereford	66	35	56.9	40.3	48.1	- 4.0	50	5	4	1.66	+ 1.16	*	*	*	*
	Cirencester	61	32	55.9	40.1	47.5	- 3.1	46	5	5	1.34	+ 0.84	36.5	- 8.5	33	- 9
	Oxford	63	35	56.0	40.4	47.7	- 4.3	47	4	5	1.10	+ 0.65	36.6	- 7.0	33	- 8
	London	59	37	56.0	43.1	49.2	- 4.3	50	0	3	0.81	+ 0.40	27.8†	-12.4†	25†	-13†
	North Foreland	61	38	53.6	44.7	48.9	- 2.0	48	0	3	0.40	?	*	*	*	*
	Cranley	59	35	54.4	42.0	47.8	- 4.9	41	0	4	1.07	?	*	*	*	*
6. SCOTLAND, W.	Dungeness	59	35	54.1	44.7	49.1	- 2.8	50	0	3	0.39	- 0.01	*	*	*	*
	Hastings (St. Leonards)	57	39	53.6	44.3	48.7	- 3.2	47	0	3	0.62	+ 0.22	27.2	-25.6	25	-25
	Southampton	60	37	56.9	43.8	50.0	- 3.4	56	0	5	1.13	+ 0.70	31.4	-17.1	29	-17
	Hurst Castle	58	38	55.7	44.9	50.0	- 2.5	56	0	4	0.85	+ 0.45	*	*	*	*
	Shaftesbury	59	36	53.7	40.0	46.4	- 4.6	39	6	4	2.24	+ 1.76	*	*	*	*
	Laudale (Loch Sunart)	68	35	58.1	39.5	48.2	- 2.3	54	7	4	1.18	+ 0.33	*	*	*	*
7. ENGLAND, N.W.	Glasgow	62	35	55.4	40.1	47.3	- 2.4	45	5	4	0.51	- 0.09	51.8	+ 16.4	46	+ 14
	Ardrossan	65	38	57.0	42.0	49.1	- 1.6	50	0	4	0.27	- 0.24	*	*	*	*
	Glenlee	65	30	57.5	35.6	45.9	- 3.6	54	18	5	0.60	- 0.12	*	*	*	*
	Gilcrux (Cumberland)	61	34	54.8	38.0	45.9	- 3.4	44	11	5	1.18	?	40.9	?	36	?
	Douglas (Isle of Man)	61	33	56.1	39.9	47.5	- 2.3	47	6	4	0.72	+ 0.21	54.5	+ 5.5	49	+ 4
	Stonyhurst	58	36	52.6	40.5	46.2	- 4.3	36	4	4	0.68	+ 0.02	40.4	- 1.7	36	- 3
8. ENGLAND, S.W.	Blackpool	61	34	58.2	42.4	49.8	- 0.9	55	0	4	1.29	+ 0.81	45.0	+ 2.6	40	+ 1
	Manchester (Prestwich)	59	36	53.0	40.3	46.3	- 4.2	37	5	3	0.48	- 0.10	40.2	?	36	?
	Liverpool Obsy. (Bidston)	57	38	53.6	42.7	47.8	- 3.8	41	0	3	1.33	+ 0.89	*	*	*	*
	Llandudno	55	40	53.5	43.0	48.1	- 3.3	45	0	4	1.18	+ 0.76	42.5	+ 0.4	38	0
	Holyhead	57	41	54.0	43.1	48.2	- 3.1	43	0	3	0.41	- 0.02	*	*	*	*
	Llandovery	62	29	56.1	37.7	46.4	- 5.1	49	12	4	0.59	- 0.06	*	*	*	*
9. IRELAND N.	Pembroke	55	39	53.0	44.3	48.4	- 2.3	45	0	5	0.85	+ 0.40	42.1	- 6.7	38	- 7
	Clifton	62	38	55.7	42.7	48.8	- 2.7	48	0	4	1.17	+ 0.64	*	*	*	*
	Arlington (N. Devon)	60	35	54.0	41.3	47.3	- 3.2	40	2	4	0.83	+ 0.16	*	*	*	*
	Cullompton	63	33	56.1	42.9	49.1	- 3.2	50	0	4	0.81	+ 0.36	39.3	- 4.7	36	- 6
	Falmouth	57	40	54.3	44.8	49.3	- 2.9	51	0	4	0.82	+ 0.30	48.1	- 2.6	45	- 3
	Plymouth	61	40	55.1	44.4	49.4	- 4.3	52	0	4	0.72	+ 0.26	44.4	- 2.9	42	- 3
10. IRELAND, S.	Prawle Point	58	40	52.9	43.7	48.0	- 3.4	42	0	4	0.97	+ 0.65	*	*	*	*
	Malin Head	54	39	52.0	44.4	48.0	- 1.9	42	0	3	0.48	?	*	*	*	*
	Londonderry	67	36	59.8	41.4	50.1	- 1.2	59	2	4	0.77	+ 0.22	*	*	*	*
	Edenfel (Omagh)	67	32	58.1	38.0	47.5	- 1.5	55	11	4	0.46	- 0.09	*	*	*	*
	Belmullet	60	38	55.1	43.4	48.9	- 2.1	48	0	4	0.16	- 0.50	*	*	*	*
	Markree Castle	67	33	58.7	39.7	48.6	- 0.9	56	6	4	0.74	+ 0.17	63.0	+21.8	56	+19
CHANNEL ISLANDS	Armagh	64	32	57.6	38.9	47.7	- 2.6	53	9	2	0.63	+ 0.15	54.9	+15.2	49	+13
	Donaghadee	62	35	56.4	40.9	48.2	- 2.4	48	3	4	0.64	+ 0.12	*	*	*	*
	Edgeworthstown	66	31	58.9	39.9	48.8	- 1.5	56	6	3	0.52	- 0.08	*	*	*	*
	Dublin	64	36	57.3	43.4	49.9	- 2.3	55	0	4	0.75	+ 0.26	54.3	+ 7.9	49	+ 6
	Parsonstown	66	32	58.9	40.7	49.3	- 1.9	57	4	3	0.46	- 0.11	46.8	+ 6.3	42	+ 5
	Kilkenny	63	32	57.7	40.3	48.5	- 3.0	53	5	6	0.37	- 0.13	*	*	*	*
CHANNEL ISLANDS	Roche's Point	67	41	58.4	44.6	51.1	- 1.6	64	0	2	0.49	- 0.21	*	*	*	*
	Valencia	63	37	57.1	44.0	50.2	- 2.5	57	0	3	0.14	- 0.53	45.5	- 0.5	41	-
	Killarney	65	33	57.9	42.3	49.6	- 2.6	53	0	5	0.68	?	*	*	*	*
	Foynes	66	37	58.7	44.8	51.3	+ 0.1	65	0	2	0.57	?	*	*	*	*
	Scilly (St. Mary's)	57	43	55.1	46.7	50.7	- 1.8	61	0	4	0.72	+ 0.34	47.2	?	44	?
	Jersey	59	46	56.3	48.0	51.9	- 1.8	69	0	4	0.93	+ 0.48	38.3	-16.7	36	-17

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

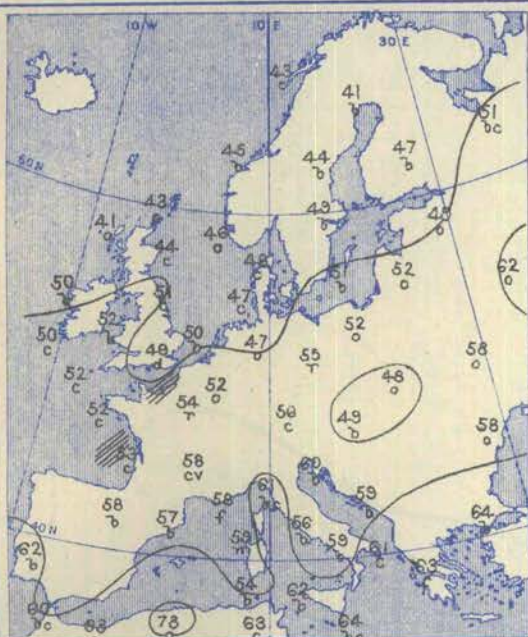
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 15th May.

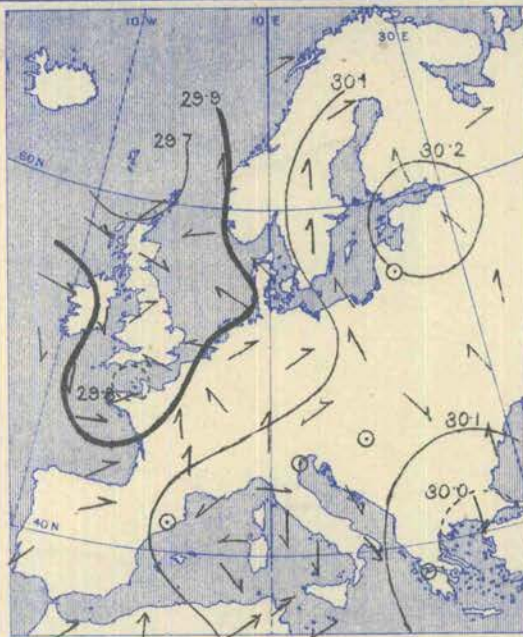
Temperature and Weather.

8 a.m.

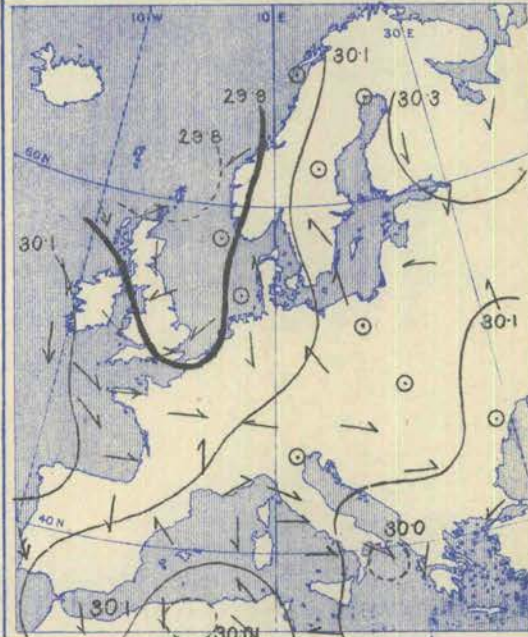


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands, but showery on our extreme north-west coasts, as well as at several of the Channel Stations, and rainy in the south-east of England and the north of France. Fine over southern Europe, and also over the northern parts of Russia and Scandinavia; dull over the more central parts of the Continent, with rain at several of the Danish and German stations. Weather improving later in the south of England, and also in Germany and the north of France, but rain falling in many other parts of north-western and northern Europe. Thunderstorm occurring at Moscow at night.

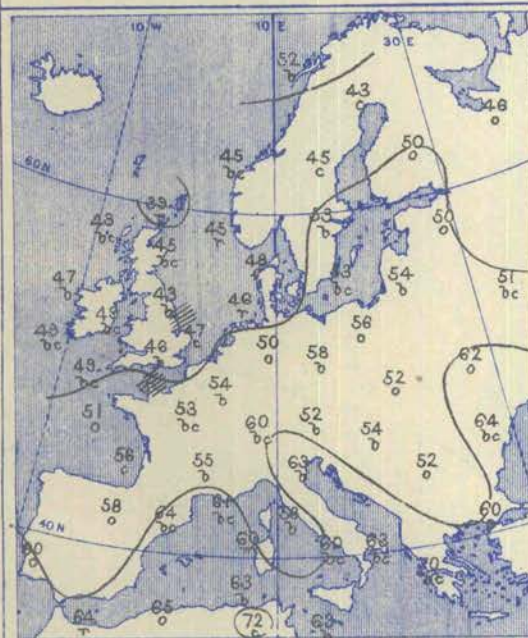
Temperature changed irregularly in our Islands, risen elsewhere. Morning readings highest, 73° at Algiers, 69° at Bilbao, and 64° at Malta, and Constantinople; above 55° in most parts of southern and eastern Europe. Lowest, (1) 41° at Stormway, 43° at Sumburgh Head, and 44° at Aberdeen; (2) 41° at Haparanda, 43° at Bodö, and 44° at Hernösand. Rising during day to 60° and upwards at several of the inland stations over England. Exceeding 70° over southern Europe, and reaching 75° at Clermont and Rome. Ground frost occurring at night at several of our own western and northern stations.

Wind light to moderate from the North-Westward in the west and north of our Islands, from the Westward over the Bay of Biscay, from the Southward over central France, and from the Eastward in the east and south-east of England. Southerly or South-Westerly in Germany; South-Easterly in Denmark, and Easterly in the south of Norway, but South-Westerly over the northern parts of Scandinavia and Russia. Calm in Austria; variable over the greater part of southern Europe. Subsequently shifting to the Westward in the south-east of England; North-Westerly winds freshening considerably on our western coasts. Barometer highest, 30.3 ins. and upwards in an anticyclone lying over the north of Scotland; 29.8 ins. and less in a shallow disturbance over the eastern parts of the English Channel; 30.0 ins. and less over Algeria, and also over Asia Minor. Depressions in neighbourhood of our Islands subsequently moving north-eastwards and partially filling up; barometer rising over western Europe generally.

Monday, 16th May.

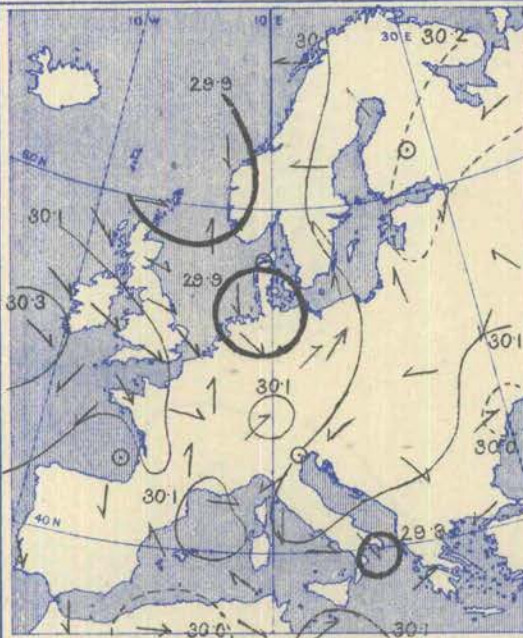
Temperature and Weather.

8 a.m.

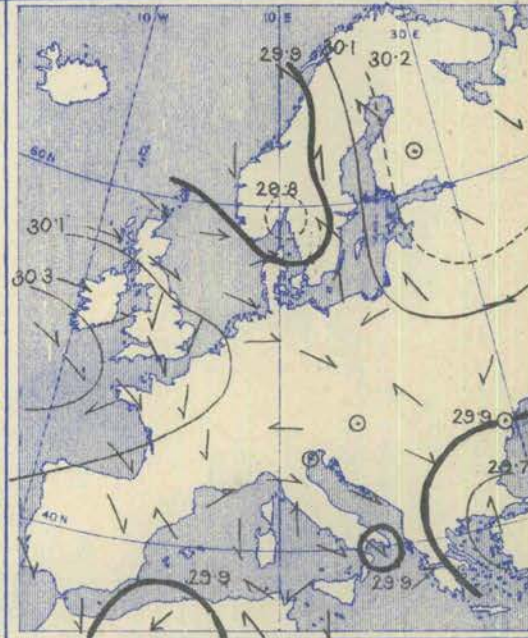


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but showers of hail or rain reported on our own extreme north and north-west coasts. Dull over Denmark, north Germany and the south of Scandinavia, with rain at Fanö and Skudesnes. Rain falling later at many of our own western and northern stations, as well as in Scandinavia, Germany and central France; thunderstorm occurring at Lyons.

Temperature fallen in our Islands, but risen in most of the Continental countries. Morning readings highest, 72° at La Calle, 70° at Patras, 68° at Athens and 65° at Odessa; above 60° in many parts of southern and eastern Europe. Lowest, 39° at Sumburgh Head, 42° at Nairn and 43° at Stormway and Shields, as well as at Haparanda. Daily maxima below 50° on several parts of our northern coasts and below 55° at all but a few of our central and southern stations. Temperature exceeding 65° in many parts of France and Germany; exceeding 70° over southern Europe generally, and reaching 82° at Madrid. Ground frost occurring over Great Britain at night.

Wind light to moderate from the North-westward over the greater part of our Islands, but Northerly at the English Channel stations. Calm or variable over France, Italy and Austria; Southerly or South-Easterly over eastern Germany, the Baltic, Finland and the south of Scandinavia; Easterly over the north of Scandinavia. Subsequently backing to the Westward in the extreme north-west of our Islands, and shifting to the same quarter in Denmark and the south of Norway.

Barometer highest, 30.3 ins. and upwards in an anticyclone extending from the Atlantic over the south of Ireland and also in another system over the north of Russia. Lowest, 29.9 ins. and less in three shallow depressions, one lying over and to the westward of Norway, another Denmark and north Germany, and third near Brindisi; 30.0 ins. and less in another shallow system over the extreme south of Russia. Depressions over Norway and Denmark moving northwards later, new disturbance beginning to approach our own extreme north-west coasts.

Tuesday, 17th May.

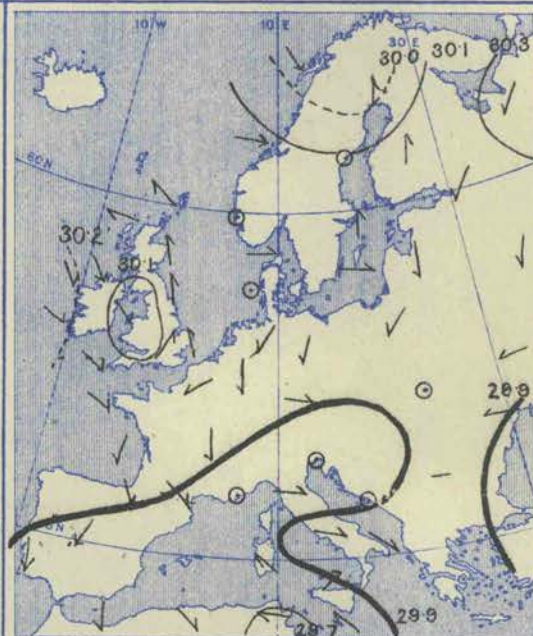
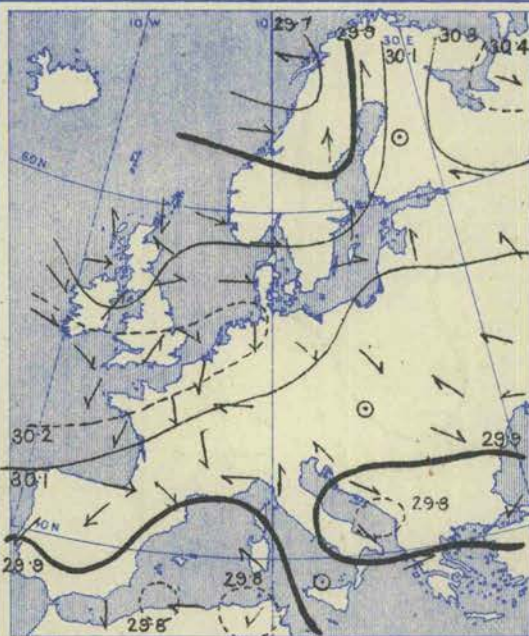
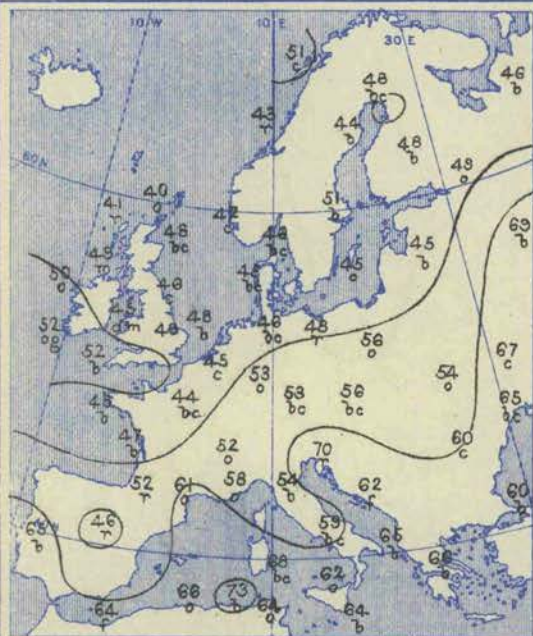
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning rainy in the west of Scotland and the northern and central parts of Ireland. Fine over England and the east of Scotland, as well as in the north of France, the Netherlands, Denmark and the south of Scandinavia; dull in Finland and the northern parts of Scandinavia, with rain at Christiansund. Fine in Austria and the northern parts of Spain, as well as in Portugal and southern Italy; dull in the south of France, with rain at Biarritz, as well as at Madrid and Trieste. Rain falling during day in many parts of western and central Europe; thunderstorms occurring in eastern and southern Germany.

Temperature risen in our Islands and also in most parts of southern and eastern Europe, but fallen elsewhere. Morning readings highest, 73° at La Calle, 70° at Trieste and 69° at Moscow; above 60° in many parts of the southern and eastern countries. Lowest, (1) 40° at Sumburgh Head, 41° at Stornoway, and 42° at Skudesnaes; (2) 44° at Paris and 45° at Brussels. Daily maxima below 55° in many parts of the United Kingdom, but thermometer reaching 59° in London and 62° at Wick; exceeding 70° over Southern Europe generally, and touching 75° at Florence and Rome. Frost occurring in Scotland at night.

Wind moderate to fresh from the Westward or North-Westward in Ireland; light from the South-Westward over England and from the Southward or South-Eastward in Scotland, moderate to strong from the Westward in Norway and Denmark, and from the Southward in Sweden, light from East or South-East in Russia. Northerly over Germany and the northern and central parts of France. North-Easterly over the Spanish Peninsula and the western parts of Italy. Subsequently shifting to the North-Westward in the western parts of Great Britain and to the North-Eastward in Scotland.

Barometer highest 30.4 ins. and upwards in an anticyclone over the extreme north of Russia, 30.2 ins. and upwards in another system extending in the form of a long band from the Atlantic across the south of England and the Netherlands. Lowest 29.7 ins. and less in a depression off the north-west of Norway; 29.8 ins. and less in two other disturbances lying respectively over Algeria and over Albania; 30.0 ins. and less in a fourth system off the west of Scotland. Scotch depression subsequently advancing in a South-South-Easterly direction, but dispersing over England at night.

Wednesday, 18th May.

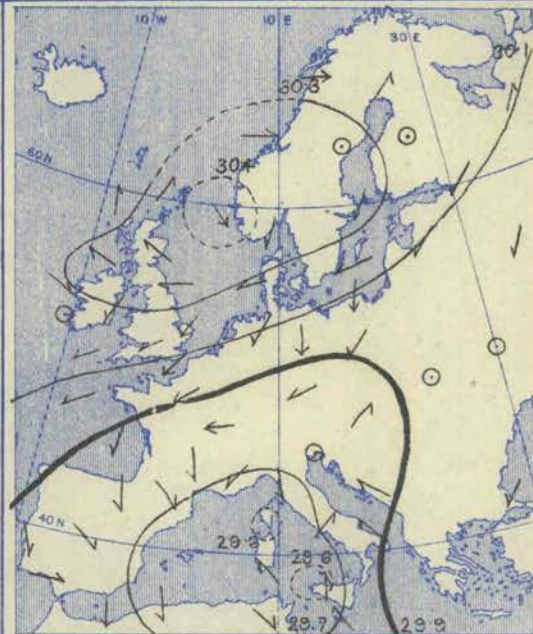
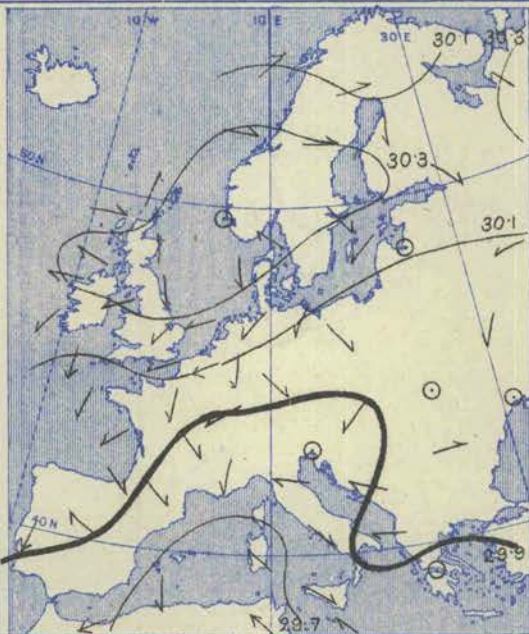
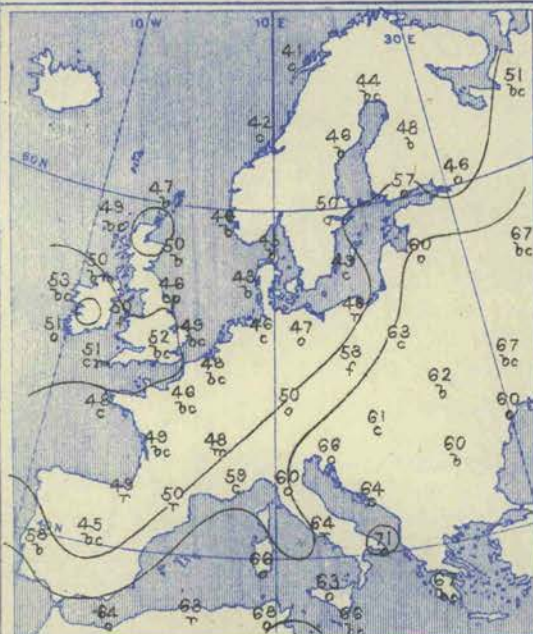
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



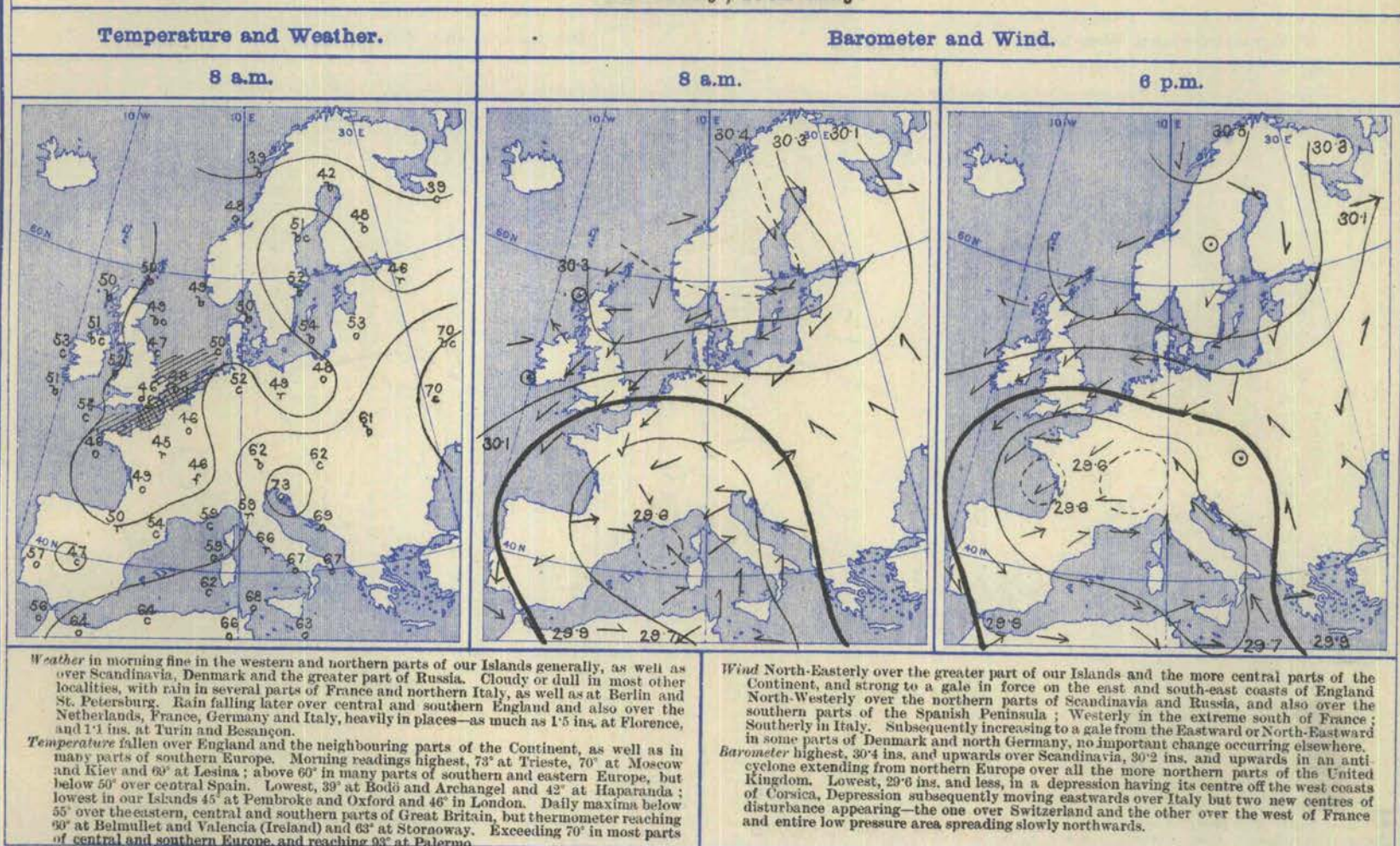
Weather in morning fine over northern and north-western Europe generally, but foggy on some parts of our own north-west coasts. Cloudy or dull in most of the central and southern countries with rain in several parts of northern Germany and the south of France, as well as at Bilbao and Naples. Considerable quantities of rain falling later over France and northern Italy (as much as 1.4 ins. at Cete and 1.3 ins. at Nice), and smaller amounts in Holland and Germany. Thunderstorms occurring at Riga and Moscow.

Temperature risen in our Islands, and also in Austria and Italy; fallen in most other countries. Morning readings highest, 75° at Sfax, 71° at Brindisi, 68° at Tunis, and 67° at Athens; above 60° in many parts of southern and eastern Europe, but below 50° over central Spain. Lowest, 41° at Bodö, 42° at Christiansund, and 43° at Fanö and Copenhagen. Daily maxima below 55° on most parts of our own north and east coasts, but thermometer reaching 60° at Belmullet and 62° at Nairn; exceeding 60° also in the west and south of France, and exceeding 70° over Spain, Italy, and Austria.

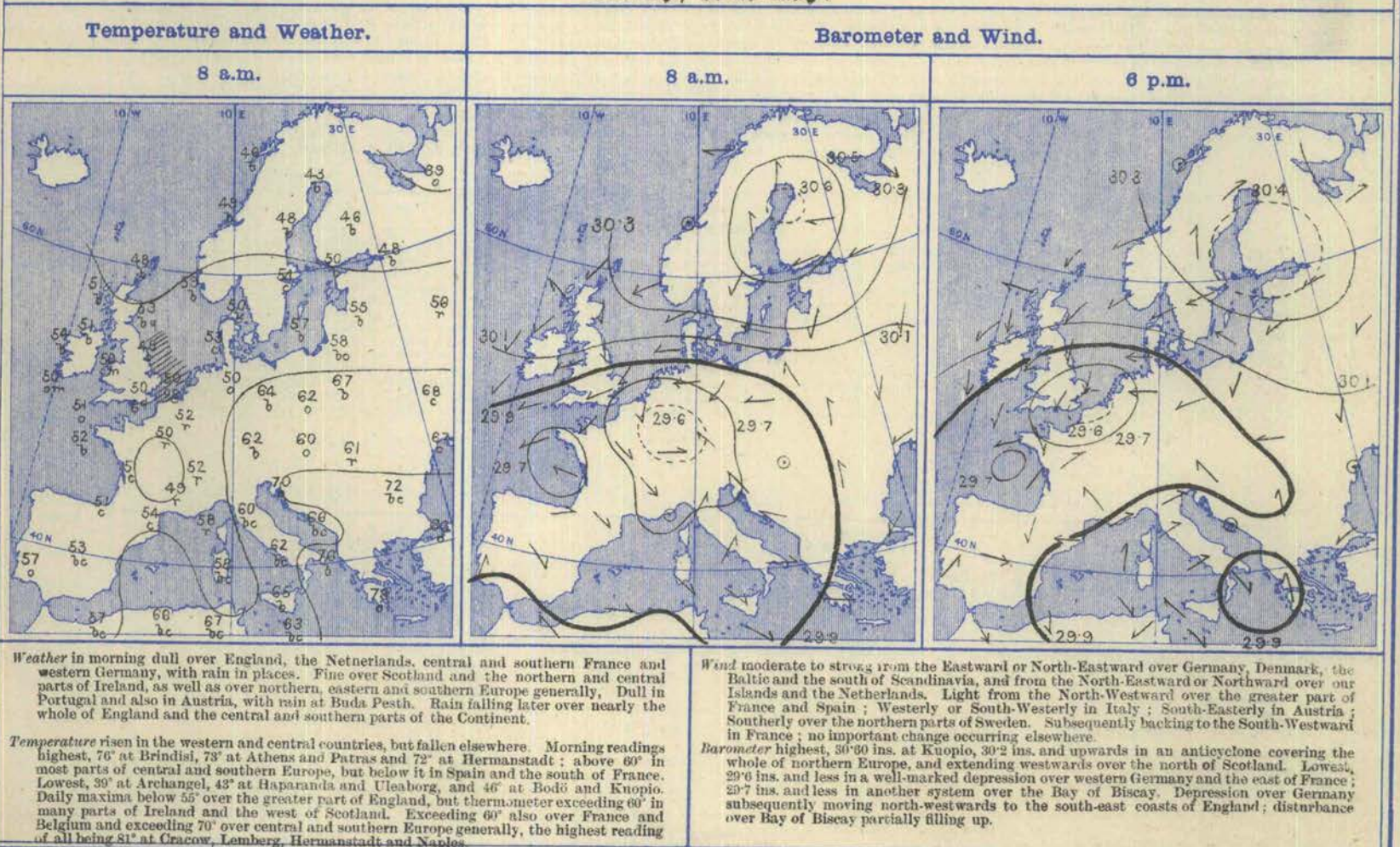
Wind light to fresh from the Eastward or North-Eastward over Ireland, England, and a considerable portion of the Continent, but Westerly or South-Westerly in the extreme north of Scotland and the northern parts of Scandinavia. Light to moderate from between North and West in the south of France; variable in Austria and Italy. Subsequently increasing to a strong breeze from the North-Eastward over the Netherlands, the north of France, and the south and east of England. Varying Southerly breezes setting in over Austria.

Barometer highest, 30.3 ins. and upwards in an anticyclone extending from Denmark and the south of Scandinavia over all the more northern parts of the United Kingdom. Lowest, 29.7 ins. and less in a large shallow depression over Algeria and the western parts of the Mediterranean. Depression subsequently spreading northwards, and barometer falling rather decidedly over France.

Thursday, 19th May.



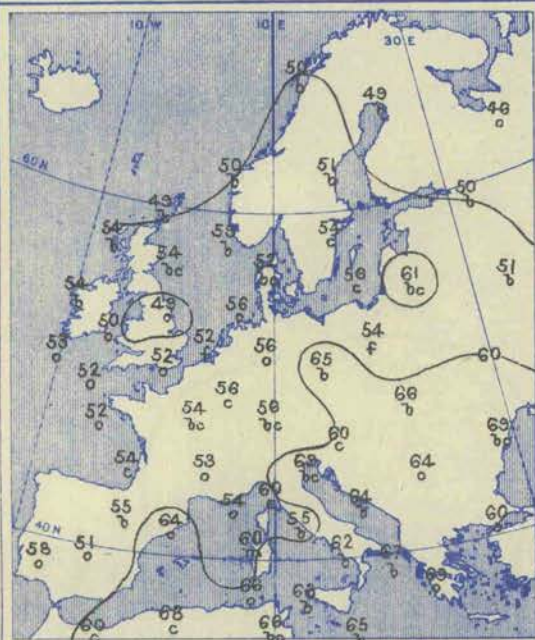
Friday, 20th May.



Saturday, 21st May.

Temperature and Weather.

8 a.m.

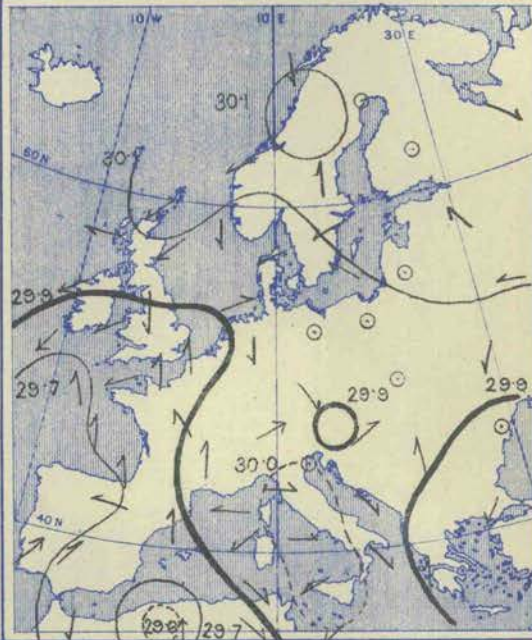


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning rainy over Wales and the northern and central parts of England; dull in the southern parts of England and Ireland, as well as in many parts of Denmark, Germany, the Netherlands, France and the Spanish Peninsula. Fine in the extreme north and north-west of our Islands, and also over northern and eastern Europe generally, and in Italy. Rain falling during day in most parts of the United Kingdom, as well as at several of the French and German stations, but weather improving in the east and south-east of England. Lightning seen at Biarritz and thunderstorms occurring at Cracow and Vienna.

Temperature risen generally, but fallen in Greece and Italy. Morning readings highest, 69° at Trieste, Athens, Patras and Odessa, and 68° at Nicolaieff and Algiers; above 60° in most parts of central, southern and eastern Europe, but below 55° over central Spain. Lowest, (1) 46° at Archangel and 49° at Uleaborg; (2) 48° at York and Spurn Head and 49° at Sumburgh Head, Shields and Loughborough. Rising during day to 60° and upwards in several parts of the United Kingdom, but remaining below 55° in the north of England. Exceeding 70° in most parts of central and southern Europe, and reaching 82° at Hermannstadt.

Wind light to moderate from the Southward over France, the Netherlands, western Germany and the south-east of England; Easterly over Denmark and the Baltic; North-Easterly over the south of Scandinavia and all the more northern and western parts of the United Kingdom and strong in force on our north-west coasts. Calm over the northern parts of Russia and Scandinavia; Easterly or North-Easterly in the south of Russia and also over the Spanish Peninsula and the extreme south of France; Northerly (North-Easterly to North-Westerly) over Italy and the Adriatic. Subsequently backing to the South-Eastward over France and the south-east of England; no important change occurring elsewhere.

Barometer highest, 30.3 ins. and upwards over Finland; 30.1 ins. and upwards in an anticyclone covering the whole of northern Europe and extending westwards over the north of Scotland. Lowest, 29.6 ins. and less in a depression lying off the south-west coasts of Portugal; 29.8 ins. and less in a large area spreading from Spain over the Bay of Biscay and the greater part of England. Portuguese depression subsequently moving slowly northwards; low pressure area over England spreading gradually over Ireland and Scotland.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this period the distribution of pressure over Europe was complex, and the weather very changeable, with heavy falls of rain in many of the western and southern countries. Early in the week two anticyclones were observed, the one fairly stationary over northern Russia, the other spreading over our Islands from the Atlantic. Prior to the advance of the latter a small shallow depression moved eastwards along the English Channel and occasioned rain over the south of England and the neighbouring parts of the Continent, while later on another shallow system formed over the North Sea, whence it passed finally on to Denmark and afterwards northwards across Scandinavia, several other disturbances being observed in the meantime over southern Europe and the Mediterranean.

On the 17th yet another shallow depression appeared off the west of Scotland and advanced in a south south-easterly direction, but eventually dispersed on reaching England. The anticyclone over northern Russia now extended westwards, and for a time embraced the whole of the United Kingdom, its influence being felt over our extreme northern districts until very nearly the close of the week. On the 18th, however, a large and complex depression began to spread northwards from Algeria and the western parts of the Mediterranean, and later on, when the borders of the system reached our own southern coasts, the wind increased considerably from the North-Eastward in many parts of our Islands and the Continent, with a gale in the east and south-east of England, as well as over the Irish Sea. Considerable falls of rain occurred over England on the 19th and 20th, and still larger amounts in many parts of France and northern Italy, the weather being cold in England and France, but fine and warm in Ireland and Scotland. By the end of the week the depression had spread almost entirely over our Islands and the North Sea, and while the rainy weather had extended over Ireland and Scotland, the conditions in the south were improving with light Southerly breezes and a rising temperature.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 116.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	81.1	?	69	?	WESTBOURNE (Emsworth)	34.1*	-16.8	32*	-16
STRATHPEFFER SPA	54.1	+15.0	47	+13	WATERGATE (Emsworth)	27.5	?	25	?
EDINBURGH	41.2	+4.7	36	+3	BRIGHTON	29.4	-18.9	27	-18
MORPETH	36.5	?	32	?	EASTBOURNE	33.7	-16.4	31	-16
NEWCASTLE-ON-TYNE	28.8	?	25	?	VENTNOR HOSPITAL	36.3	?	34	?
OSWALDKIRK (Yorkshire)	36.4	-2.6	32	-3	SOUTHPORT	44.9	?	40	?
SHEFFIELD	33.3	?	30	?	COLWYN BAY	38.7	?	35	?
WORKSOP	35.6	-3.0	32	-3	TENBY	37.3*	-11.9	34*	-12
THURCASTON (Leicestershire)	42.5	+1.7	38	0	NEWQUAY	39.5	-7.6	37	-8
HOLLESLEY BAY	39.8	?	36	?	TORQUAY	38.7*	-9.7	36*	-10
PLUMSTEAD COMMON					GUERNSEY	34.5*	-24.3	33*	-24
MARGATE	37.3	-6.5	35	-6					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C. ; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW ; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 21.]
Third Series.

WEEK ENDING SATURDAY, MAY 28TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 122.)		Temperature of the Air.													
		Observed during the Week.					Accumulated.								
		Highest.	Lowest.	Averages of			Above or below the Mean for the Week.	For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	61	36	53.3	41.6	47.1	2 below	Day-deg. 37	Day-deg. -10	Day-deg. 1	Day-deg. -3	Day-deg. 431	Day-deg. +81	Day-deg. 392	Day-deg. -222
	1. SCOTLAND, EAST	65	33	55.1	41.4	47.8	3 below	43	-15	2	-1	513*	+67	423*	-223
	2. ENGLAND, N.E.	67	35	54.1	42.3	47.8	3 below	41	-18	0	-2	533	+97	332	-215
	3. ENGLAND, EAST	77	34	60.1	43.9	51.5	1 below	67	-6	0	-3	603	+38	410	-204
	4. MIDLAND COUNTIES	72	34	61.1	44.4	52.3	1 below	72	-3	0	-2	635	+35	404	-213
5. ENGLAND, SOUTH	76	37	61.2	48.1	54.2	1 above	85	+5	0	-1	689	+55	234	-241	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	69	34	60.4	44.4	51.9	1 above	69	+5	0	-2	581	+97	245	-215
	7. ENGLAND, N.W.	68	37	60.4	46.4	53.0	1 above	77	+10	0	-2	593	+94	215	-242
	8. ENGLAND, S.W.	74	38	61.7	48.3	54.6	2 above	88	+14	0	-1	702	+71	205	-156
	9. IRELAND, NORTH	70	35	58.3	45.8	51.7	0 (average)	68	+3	0	-1	652	+91	227	-166
	10. IRELAND, SOUTH	69	38	59.9	47.6	53.4	0 (average)	80	+8	0	-1	796	+104	165	-133
-CHANNEL ISLANDS	71	50	60.3	51.0	55.4	1 above	94	+14	0	0	937	+191	55	-93	

DISTRICTS. (See p. 122.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10ths of in. 4	10ths of in. 3 less	113	+16	Ins. 25.2	+6.7	29	-5	25	-5	477	+37	28	+2
	1. SCOTLAND, EAST	3	1	4 less	85	+8	10.4	-0.6	31	-10	27	-9	502	+13	30	+1
	2. ENGLAND, N.E.	2	1	4 less	75	+1	8.0	-0.8	33	-4	29	-4	475	-1	29	0
	3. ENGLAND, EAST	2	1	3 less	69	-3	6.7	-1.9	49	+1	45	0	542	-26	32	-1
	4. MIDLAND COUNTIES	2	4	1 less	69	0	7.3	-2.4	29	-13	26	-12	490	-9	30	0
5. ENGLAND, SOUTH	2	3	1 less	66	-1	8.0	-2.2	33	-11	35	-11	522	-34	32	-2	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	1	6 less	96	+14	16.1	-2.0	57	+15	49	+12	536	+55	33	+3
	7. ENGLAND, N.W.	2	7	1 more	81	+6	13.5	+2.2	58	+14	51	+12	574*	+93	35	+5
	8. ENGLAND, S.W.	3	4	2 less	79	+4	12.4	-1.5	42	-7	38	-7	618	0	36	0
	9. IRELAND, NORTH	3	2	5 less	100	+13	14.0	+0.8	39	-3	34	-3	545	+55	32	+3
	10. IRELAND, SOUTH	3	2	4 less	77	-4	13.8	-1.0	39	-6	35	-6	568	-1	34	0
-CHANNEL ISLANDS	2	3	2 less	89	+7	9.7	-2.2	52	-6	48	-6	670	-34	39	-2	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period was fairer and drier than in the weeks immediately preceding it, but a good deal of cloud prevailed in some districts, and showers were experienced in most places either at the beginning or towards the end of the week. Thunder and lightning occurred in some parts of England, mostly on the 22nd.

Temperature was below the mean in Scotland N. and E., England N.E., England E., and the Midland Counties, but rather above it in Scotland W., and England S., S.W. and N.W., and just equal to the normal in Ireland. The highest of the maxima were recorded on Monday over England, on Saturday in Scotland, and on irregular dates in Ireland; they ranged from 77° in England E. and 76° in England S., to 65° in Scotland E. and to 61° in Scotland N. The lowest of the minima, which were registered during the latter half of the week, ranged from 33° in Scotland E. and 34° in England E., the Midland Counties and Scotland W., to 39° in England N.W., and to 50° in the Channel Islands.

Rainfall was less than the mean in all districts excepting England N.W., the fall over the

eastern districts of Great Britain and in Scotland W. being very slight. Heavy local rain fell in some places; at Liverpool on Sunday and at Cullompton on Tuesday, more than an inch was measured, the amount at the latter station falling in 40 minutes during a thunderstorm.

Bright Sunshine was deficient in nearly all districts, but equalled the normal amount in England E., and exceeded it in Scotland W. and England N.W. The percentage of the possible duration ranged from 49 and 51 in these two latter districts, and 45 in the Channel Islands, to 29 in England N.E., 26 in the Midland Counties, and 25 in Scotland N.

Barometer and Wind.—No well-defined depressions of importance appeared directly over our Islands during this period, but disturbances spread over us from the Continent—at first from the southward, and afterwards from the south-eastward and eastward. The winds were consequently moderate to fresh from the Eastward during the earlier days, and light or moderate from between North-East and North-West during the latter part of the week.

II.—DATA from which the SUMMARY on page 121 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	53	39	51.1	41.6	46.1	- 0.4	30	1	3	0.39	- 0.06	*	*	*	*
	Stornoway	55	38	52.7	42.0	47.0	- 1.5	35	0	5	0.45	- 0.16	35.2	- 6.6	30	- 6
	Wick	57	37	51.0	41.9	46.2	- 2.3	30	0	6	0.46	+ 0.08	*	*	*	*
	Lairg	61	36	53.6	38.6	45.7	- 2.8	40	10	4	0.25	- 0.25	*	*	*	*
	Glencarron	61	38	54.1	41.5	47.4	- 2.1	40	1	4	0.66	- 0.52	*	*	*	*
	Fort Augustus	57	39	53.1	42.5	47.5	- 2.9	39	0	3	0.10	- 0.32	21.8	- 6.4	18	- 7
	Fort William	61	39	57.4	43.1	49.8	- 1.5	55	0	2	0.12	- 0.68	46.4	+ 7.6	40	+ 7
1. SCOTLAND, E.	Nairn	58	39	53.3	42.4	47.5	- 3.2	39	0	3	0.08	- 0.34	*	*	*	*
	Aberdeen	58	39	52.6	43.6	47.8	- 2.2	41	0	5	0.23	- 0.25	20.9	- 23.1	18	- 20
	Braemar	62	33	54.3	39.4	46.4	- 1.8	42	7	3	0.03	- 0.45	49.2†	+ 7.9†	42†	+ 6†
	Ochertyre	65	36	60.0	41.0	49.9	- 1.8	60	3	1	0.01	- 0.60	*	*	*	*
	Leith	65	39	57.0	43.3	49.7	- 2.3	54	0	1	0.03	- 0.42	*	*	*	*
	Marchmont	59	35	53.1	38.7	45.5	- 4.2	38	9	2	0.02	- 0.58	23.0	- 19.1	20	- 17
2. ENGLAND, N.E.	Alnwick Castle	57	35	52.5	41.0	46.4	- 3.2	35	3	5	0.21	- 0.32	*	*	*	*
	Durham	61	35	54.5	40.5	47.1	- 4.0	42	4	3	0.27	- 0.24	26.9	- 12.9	23	- 12
	Shields	55	38	50.6	41.3	45.7	- 4.2	29	2	1	0.02	- 0.39	*	*	*	*
	Scarborough	56	38	53.0	42.1	47.2	- 3.7	36	0	1	0.03	- 0.47	50.2	?	44	?
	York	67	36	59.7	42.6	50.6	- 1.9	60	0	0	—	- 0.50	42.2	- 0.7	37	- 1
	Spurn Head	57	43	54.0	46.0	49.8	- 1.2	55	0	1	0.03	- 0.38	*	*	*	*
3. ENGLAND E.	Hillington	72	34	60.2	41.7	50.4	- 2.2	60	1	1	0.04	- 0.46	54.3	+ 6.4	48	+ 5
	Yarmouth	59	42	55.1	46.0	50.3	- 1.6	58	0	1	0.07	- 0.40	*	*	*	*
	Geldeston	65	36	59.0	44.0	51.1	- 1.4	64	0	2	0.12	- 0.33	49.6	- 1.6	45	- 2
	Cambridge	77	36	64.6	43.0	53.2	- 0.8	78	0	1	0.09	- 0.39	55.2	+ 9.7	50	+ 9
	Rothamsted	72	43	61.6	44.9	52.6	- 0.2	74	0	3	0.35	- 0.13	32.9	- 12.1	30	- 11
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	69	34	62.0	42.1	51.5	- 1.9	67	0	2	0.07	- 0.45	*	*	*	*
	Loughborough	70	36	61.0	43.1	51.5	- 2.8	67	0	2	0.08	- 0.42	*	*	*	*
	Stamford (Duddington)	70	40	61.0	42.6	51.3	- 2.2	65	0	1	0.11	- 0.43	*	*	*	*
	Cheadle	67	38	58.8	44.3	51.1	- 0.2	64	0	2	0.64	+ 0.05	*	*	*	*
	Shirley (near Solihull)	70	40	61.0	45.1	52.6	- 0.9	74	0	3	1.05	?	*	*	*	*
	Churchstoke	?	41	?	45.7	?	?	?	0	3	1.08	+ 0.54	*	*	*	*
5. ENGLAND, S.	Hereford	69	42	61.1	46.4	53.3	+ 1.3	79	0	3	0.41	- 0.13	28.8	- 17.0	26	- 16
	Cirencester	72	44	62.7	47.3	54.5	+ 1.0	88	0	2	0.07	- 0.43	31.0	- 13.7	28	- 13
	Oxford	76	45	65.1	47.6	55.8	+ 0.8	97	0	3	0.12	- 0.34	26.7†	- 15.0†	24†	- 14†
	London	60	44	55.9	48.0	51.7	- 0.8	68	0	1	0.03	?	*	*	*	*
	North Foreland	72	37	63.0	44.7	53.3	- 0.8	79	0	3	0.11	?	*	*	*	*
	Cranley	64	42	58.7	48.4	53.2	- 0.3	78	0	0	—	- 0.45	*	*	*	*
6. SCOTLAND, W.	Dungeness	70	45	61.1	48.6	54.5	+ 1.3	88	0	1	0.05	- 0.40	41.0	- 13.1	37	- 13
	Hastings (St. Leonards)	73	43	63.4	48.9	55.7	+ 1.1	96	0	5	1.34	+ 0.89	39.2	- 10.3	36	- 10
	Southampton	70	45	62.0	50.9	56.1	+ 2.3	99	0	2	0.24	- 0.19	*	*	*	*
	Hurst Castle	69	44	60.3	47.6	53.6	+ 1.4	81	0	1	0.60	+ 0.19	*	*	*	*
	Shaftesbury	69	37	60.1	43.9	51.5	0.0	67	0	2	0.23	- 0.66	*	*	*	*
	Glasgow	62	41	58.1	44.0	50.6	- 0.3	60	0	0	—	- 0.68	50.1	+ 13.8	43	+ 11
7. ENGLAND, N.W.	Ardrossan	65	42	59.7	45.7	52.3	+ 0.6	72	0	1	0.01	- 0.57	*	*	*	*
	Glenlee	68	34	62.0	42.2	51.5	+ 0.7	67	0	2	0.06	- 0.74	*	*	*	*
	Gilcrux (Cumberland)	67	39	61.2	43.1	51.6	+ 0.6	67	0	4	0.04	?	54.3	?	47	?
	Douglas (Isle of Man)	64	43	61.1	47.2	53.7	+ 2.5	82	0	1	0.38	- 0.19	66.5	+ 16.3	58	+ 13
	Stonyhurst	66	39	60.3	45.2	52.3	+ 0.4	72	0	3	0.61	- 0.14	57.0	+ 13.2	50	+ 11
	Blackpool	69	37	62.8	45.5	53.6	+ 1.7	81	0	1	0.63	+ 0.12	60.9	+ 16.9	53	+ 14
8. ENGLAND, S.W.	Manchester (Prestwich)	64	40	60.4	45.1	52.3	+ 0.2	72	0	3	0.71	+ 0.06	50.9	?	45	?
	Liverpool Obsy. (Bidston)	68	44	60.0	46.4	52.8	+ 0.3	76	0	1	1.03	+ 0.53	*	*	*	*
	Llandudno	67	45	60.1	47.8	53.6	+ 0.5	81	0	2	0.76	+ 0.28	55.0	+ 11.5	49	+ 10
	Holyhead	66	46	59.0	48.4	53.4	+ 0.9	80	0	4	0.31	- 0.17	*	*	*	*
	Llandovery	74	38	66.6	46.3	55.8	+ 2.8	97	0	4	0.43	- 0.27	*	*	*	*
	Pembroke	67	45	57.9	47.4	52.3	+ 0.2	72	0	2	0.35	- 0.15	53.6	+ 3.9	48	+ 3
9. IRELAND N.	Clifton	72	46	61.6	49.1	55.0	+ 2.1	91	0	4	0.30	- 0.28	*	*	*	*
	Arlington (N. Devon)	70	42	62.9	47.1	54.5	+ 3.0	88	0	2	0.25	- 0.49	*	*	*	*
	Cullompton	73	44	64.8	49.1	56.5	+ 3.0	102	0	3	1.30	+ 0.88	28.5	- 17.0	26	- 16
	Falmouth	62	47	59.8	49.8	54.5	+ 1.1	88	0	1	0.02	- 0.30	52.8	+ 0.8	48	0
	Plymouth	70	45	61.3	49.1	54.8	- 0.1	90	0	2	0.06	- 0.42	36.7	- 11.5	34	- 11
	Prawle Point	65	45	58.4	48.3	53.1	+ 0.4	78	0	2	0.14	- 0.24	*	*	*	*
10. IRELAND, S.	Malin Head	57	44	52.4	46.6	49.3	- 1.9	51	0	3	0.20	?	*	*	*	*
	Londonderry	70	43	59.7	46.4	52.7	0.0	75	0	3	0.12	- 0.48	*	*	*	*
	Edenfel (Omagh)	70	40	58.9	45.6	51.9	+ 2.1	69	0	2	0.18	- 0.42	*	*	*	*
	Belmullet	67	42	57.9	47.0	52.1	- 0.1	71	0	6	0.0	- 0.61	*	*	*	*
	Markree Castle	69	44	59.6	46.9	52.9	+ 1.6	76	0	4	0.19	- 0.44	41.2	- 0.6	36	- 1
	Armagh	65	35	59.4	43.1	50.8	- 0.7	62	0	4	0.24	- 0.24	36.4	- 4.3	32	- 4
CHANNEL ISLANDS	Donaghadee	64	44	58.7	47.1	52.6	+ 0.7	74	0	3	0.18	- 0.38	*	*	*	*
	Edgeworthstown	67	36	59.7	43.3	51.0	- 0.2	63	0	1	0.05	- 0.61	*	*	*	*
	Dublin	64	40	59.7	47.4	53.2	- 0.3	78	0	3	0.09	- 0.41	42.4	- 4.6	38	- 5
	Parsonstown	69	39	61.9	45.7	53.3	+ 1.0	79	0	3	0.18	- 0.42	33.4	- 7.4	30	- 6
	Kilkenny	68	38	61.4	46.4	53.5	+ 1.0	81	0	2	0.03	- 0.47	*	*	*	*
	Roche's Point	63	45	59.6	48.6	53.8	- 0.2	83	0	2	0.60	- 0.11	*	*	*	*
CHANNEL ISLANDS	Valencia	64	42	58.3	48.1	52.9	- 0.8	76	0	4	0.17	- 0.44	41.6	- 5.4	37	- 6
	Killarney	66	39	59.4	47.4	53.0	- 0.2	77	0	1	0.04	?	*	*	*	*
	Foynes	65	43	59.3	47.4	54.1	+ 1.7	85	0	3	0.38	?	*	*	*	*
	Scilly (St. Mary's)	62	50	57.9	51.0	54.2	+ 0.5	85	0	1	0.03	- 0.38	50.2	?	46	?
	Jersey	71	50	62.7	50.9	56.5	+ 1.8	102	0	3	0.57	+ 0.09	52.8	- 4.0	49	- 4

Stations marked *M* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

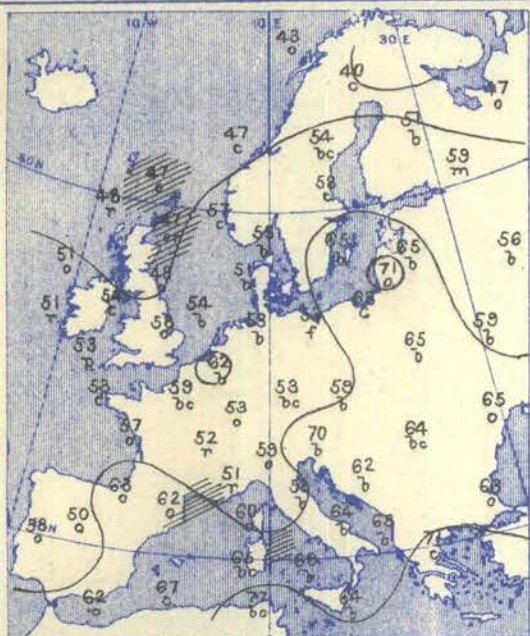
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 22nd May.

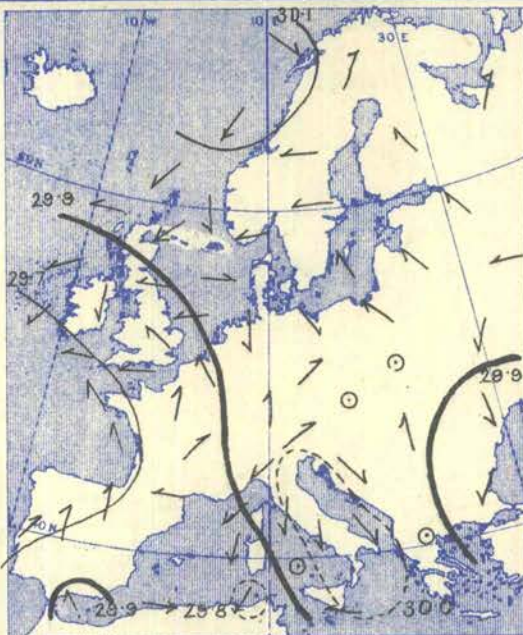
Temperature and Weather.

8 a.m.

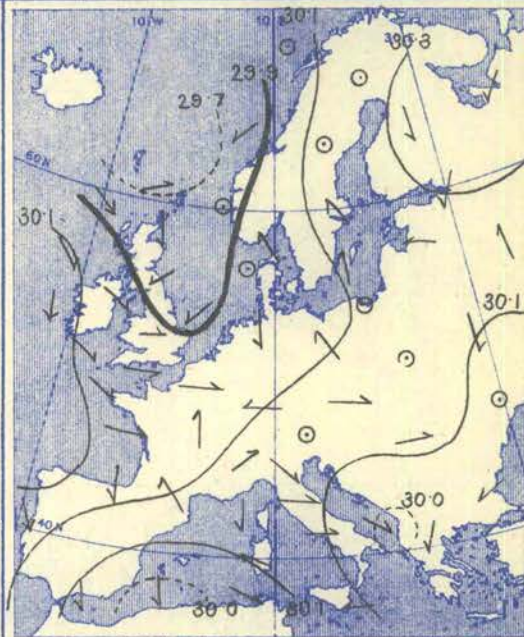


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Italy, south-eastern and central Europe, the Baltic, and locally over some parts of England; cloudy and unsettled over our Islands as a whole, with rain at many of our northern and western stations. Rain falling later over the western and northern parts of the Kingdom as a whole—heavily at Liverpool, where a severe thunderstorm occurred; thunder over the south of England. Considerable rain in the south of France also, and showers in many parts of central Europe.

Temperature risen over Sweden, and also at the English stations. Morning readings highest, (1) 77° at La Calle, 71° at Athens, and much above 60° over the southern parts of the Mediterranean as a whole; above 60° over the southern parts of Russia, and also over the north of Spain; (2) 71° at Memel, 65° at Wisby, 59° at St. Petersburg, 56° at Helsingfors, 58° in London and at Oxford. Lowest, 47° in the north-east of Scotland and at Christiansund, 43° at Bodø, 40° at Haparanda. Rising later to between 65° and 71° in many parts of England, to 72° at Berlin and Biarritz, and 73° at Paris.

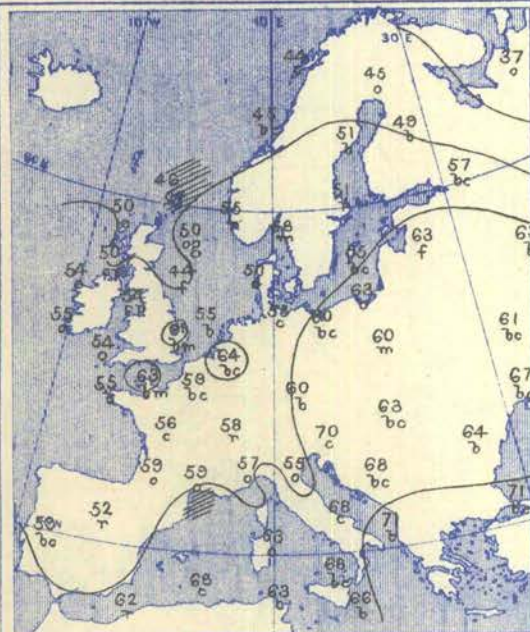
Wind (1) exceedingly variable in direction, and light in force over the greater part of Continental Europe, but (2) Easterly, moderate, over our Islands, Southerly in the south-west of France, and South-South-Westerly at Oporto; (3) Northerly and North-Easterly, moderate to strong, over many parts of the Mediterranean. Veering South-Eastwards over the southern half of our Islands later, and to South-West over Spain. Changing greatly over the Mediterranean also.

Barometer highest, 30.1 ins. and more to 30.0 ins. over northern Europe, and exceeding 30.0 ins. over Italy. Lowest, below 29.7 ins. over the western part of the Bay of Biscay, and below 29.9 ins. over the Black Sea. Not much change later.

Monday, 23rd May.

Temperature and Weather.

8 a.m.

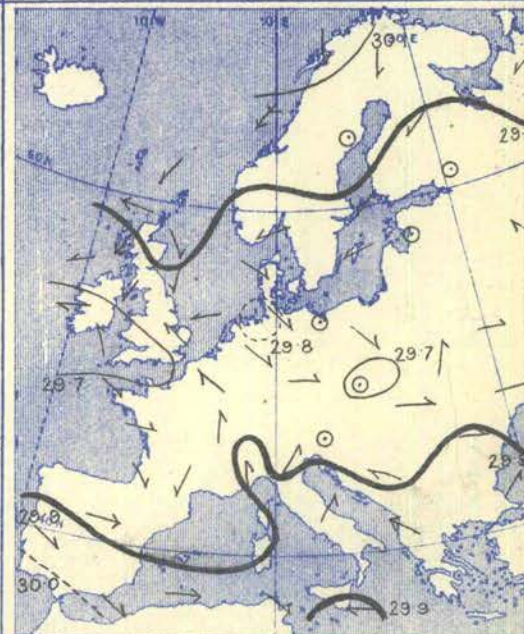


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning in a very changeable condition over our Islands, and the western and central countries of Europe generally. Clear in some places, cloudy, overcast or misty in others, with showers in some parts of France, the British Islands and the south of Scandinavia; thunderstorm at Karlstad. Rain falling later in several parts of Ireland, England and France, as well as in some parts of Germany and Sweden. Thunder and lightning in several parts of England, and the south-east of France, as well as at Riga.

Temperature changing fitfully. Morning readings highest 73° at Athens, 71° at Constantinople and Brindisi, and exceeding 60° at many stations in Russia, Germany, France and England. Lowest, (1) 37° at Archangel, 45° at Haparanda and Christiansund, 46° at Sumburgh Head; (2) 44° at Shields, 47° at Leith. Rising later to 70° or more in several parts of France, Germany, and England, and touching 73° at Paris, 75° at Berlin, 76° in London, and 77° at Cambridge, but falling briskly over England still later.

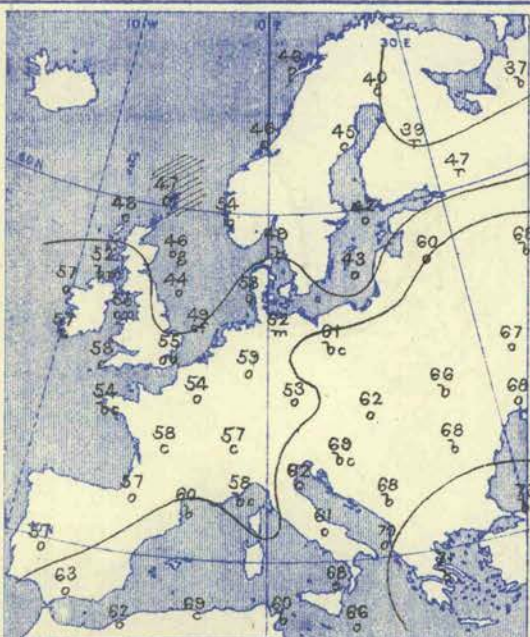
Wind light to moderate and very variable over the British Islands and Europe generally, but chiefly Northerly to Easterly over the northern countries, and Southerly to Westerly in the south. No decided change later.

Barometer highest, (1) 30.2 ins. and more to 29.9 ins. over northern Europe, including Scotland; (2) exceeding 29.9 ins. over south-eastern Europe, the north of Africa and the south-west of Spain, and exceeding 30.0 ins. in the Azores. Lowest, below 29.7 ins. over the Bay of Biscay, the west and north of France, and the south-west of our Islands, and below 29.9 ins. all over central and eastern Europe. Rising later at the south-western stations. No decided change elsewhere.

Tuesday, 24th May.

Temperature and Weather.

8 a.m.

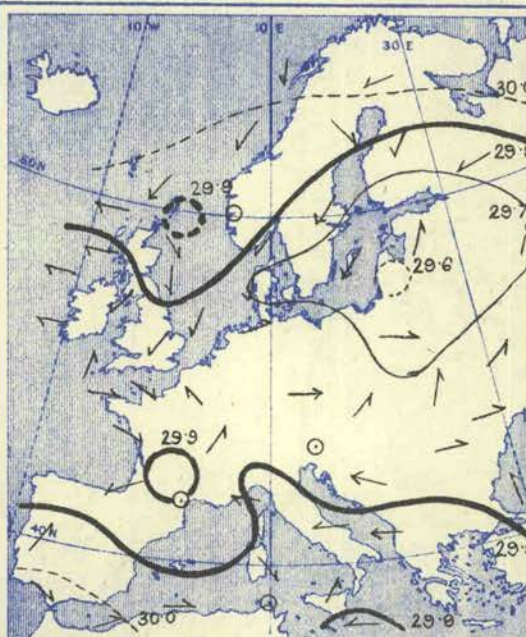


Weather in morning fine and bright over the Mediterranean, and nearly the whole of southern and south-eastern Europe, cloudy generally and unsettled over the northern countries, with showers in many places, and fog or mist at several stations, chiefly over England and the Channel on the one hand, and over North Germany on the other. Some rain falling later over certain parts of Scandinavia, Scotland, Ireland, the south-west of England, and various parts of France, Germany and the Baltic, thunder occurring at Parsonstown, Hurst Castle and Biarritz.

Temperature falling over Great Britain. Morning readings highest, 73° to 68° over south-eastern Europe, 69° at Algiers and Trieste, and exceeding 60° at all the Mediterranean stations and over the southern parts of Germany and Russia; 58° at Rochefort, Scilly and Parsonstown, 55° in London. Lowest, (1) 37° at Archangel, 39° at Kuopio, 42° at Stockholm, 47° at St. Petersburg and at Sumburgh Head; (2) 44° at Shields, 46° at Aberdeen and Spurn Head, 48° at Loughborough. Rising later to 60° and more in many parts of our Islands, and touching 69° at Parsonstown, 70° in London, 71° at Paris, 72° at Biarritz and 73° at Berlin, 77° in several parts of Tunis, and 82° at Brindisi.

Barometer and Wind.

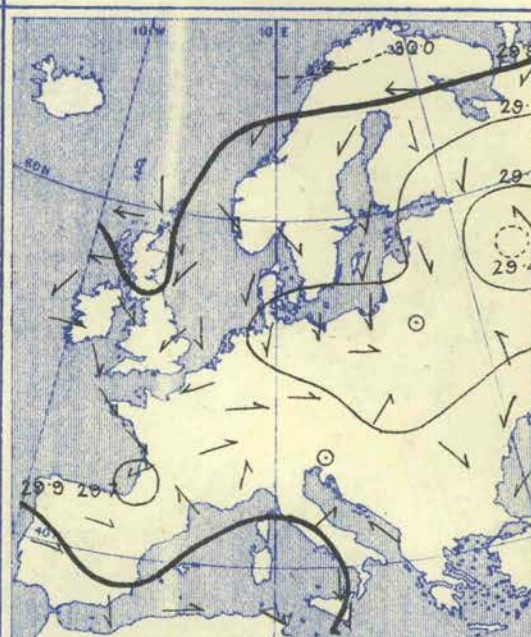
8 a.m.



Wind light to fresh in force, but very variable in direction; but mainly North-Easterly to Easterly over all the northern countries, and Westerly in the south. Varying in direction locally later, but no general alteration reported anywhere.

Barometer highest, 30.0 ins. and more to 29.9 ins. over the extreme northern and also over the extreme southern parts of our area, lower over the western and central countries; 29.6 ins. and less to 29.7 ins. over the Baltic Provinces, the Baltic, eastern Germany, and central Russia, apparently below 29.7 ins. off our extreme south-west coasts, and below 29.8 ins. in a broad band extending from the Atlantic across the south of our Islands and the north of France to north Germany. Hardly any change in our Islands later, but barometer falling decidedly in the south-west of France.

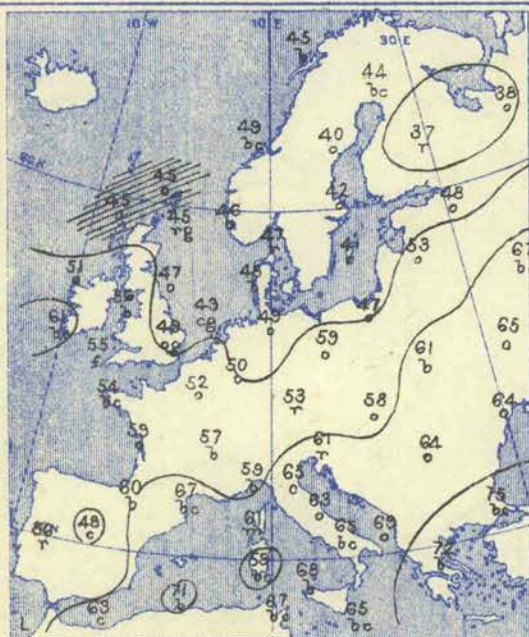
6 p.m.



Wednesday, 25th May.

Temperature and Weather.

8 a.m.

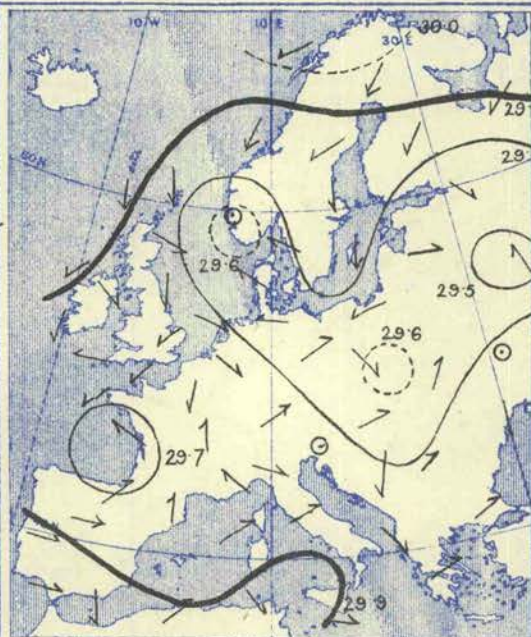


Weather in morning fine and bright at several stations in the extreme south, west and north of the British Islands, cloudy or overcast and hazy elsewhere, with rain in many places—particularly in the north of Italy and south of Austria and over the Skager Rack. Rain falling later in considerable quantity over the south and west of France and in the south of Norway, and small quantities in Scotland, some parts of Ireland and over Germany; thunder occurring at Roche's Point, Lorient, Lyons and Morocco.

Temperature fallen very generally. Morning readings highest, 75° at Constantinople, 72° at Athens, 71° at Algiers, and exceeding 60° at most of the Mediterranean and Adriatic station, 61° at Valencia (Ireland), 58° at Parsonstown. Lowest, (1) 37° at Kuopio, 40° at Hernösand, 41° at Wisby; (2) 45° at Sumburgh Head and Aberdeen, 47° at York, Oxford and the North Foreland. Maxima recorded later very little above 50° in Scotland, 55° to 59° over England, 63° to 66° over Ireland, 66° at Berlin, 70° to 72° on the north-west coast of France, 77° at Cagliari, 79° at La Calle.

Barometer and Wind.

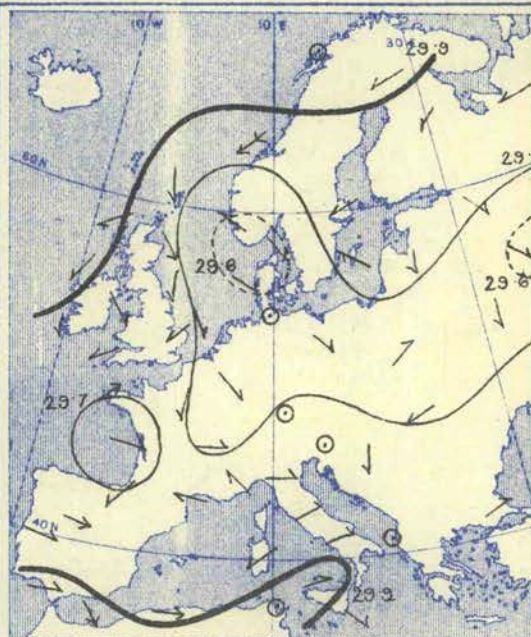
8 a.m.



Wind continuing exceedingly variable—moderate to strong from between North-East and North-West over most of the northern and north-western countries, and from South-West and West in the far south; separate cyclonic circulations of very light winds observed over the south-west of France and many parts of north-western and central Europe. Very little change later.

Barometer highest, 30.0 ins. and more to 29.8 ins.; (1) over the extreme northern parts of Europe, and (2) over Algeria and the greater part of the Mediterranean, as well as over the north-west of our Islands. Lowest, 29.5 ins. and less over central Russia, 29.6 ins. and less over Austria and the north-eastern parts of the North Sea, as well as over the southern half of the Bay of Biscay. Changing little and irregularly later.

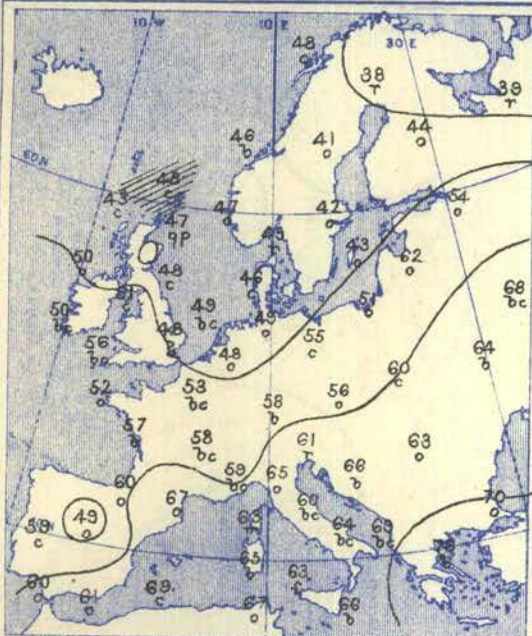
6 p.m.



Thursday, 26th May.

Temperature and Weather.

8 a.m.

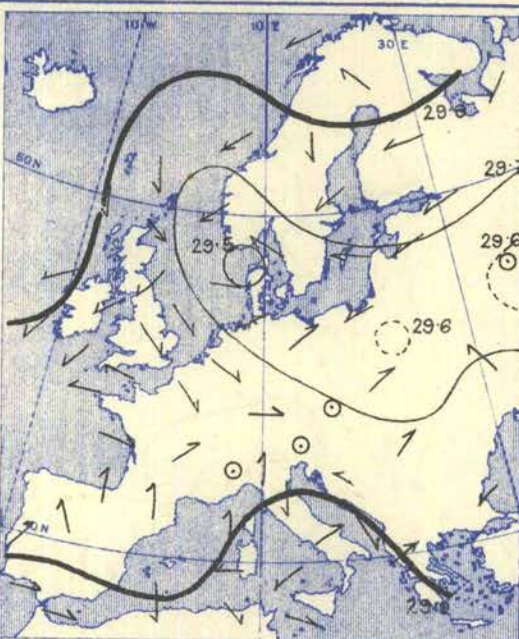


Weather in morning still showery at several of the North Sea and Baltic stations, as well as over the more northern parts of Continental Europe, dull over the greater part of our Islands, fine over the southern countries of Europe and the Mediterranean. Rain falling later at many of the Continental stations and in Scotland; thunderstorms reported in the south of France, but weather remaining dry over England and Ireland and tending to clear up.

Temperature rises over northern Europe, changed little and irregularly elsewhere. Morning readings highest, 73° at Athens, 68° at Algiers, and above 60° at the Mediterranean stations usually; 58° at Moscow, 64° at Kiev, 62° at Riga; 56° to 50° over the south-western parts of our Islands, and 55° at Leith. Lowest, 38° at Haparanda, 39° at Archangel, 41° at Hernösand, 42° at Karlstad; below 50° over almost the whole of Scotland and the north-east and east of England. Exceeding 60° later at only three of our stations, but touching 63° at Jersey and Berlin, 64° at Paris, 68° at Nice and Biarritz, and 72° at Lorient, 81° at Caghari, 91° at Bisterra, and 95° at Laghouat.

Barometer and Wind.

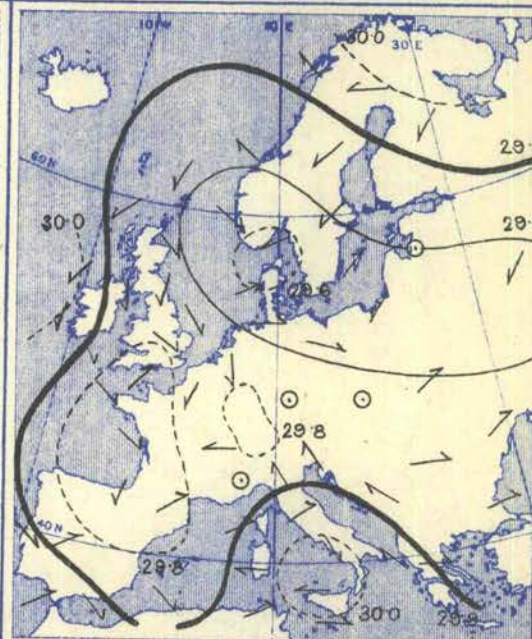
8 a.m.



What moderate to strong in force from between North and East over Scandinavia and Scotland, North-Westerly to Northerly over England; very variable and light over France and Germany, and variable but chiefly Southerly over southern Europe. No very decided change later, except in the north-west of Norway, where the wind drew into South-East and fell light.

Barometer highest, 29.9 ins. and more to 29.8 ins. (1) over Finland and northern Europe generally; (2) over Ireland and the greater part of Scotland; (3) over the greater part of Spain and the Mediterranean, the Adriatic and Greece. Lowest, (1) below 29.6 ins. in shallow disturbances lying over central Russia, Poland and Denmark, and below 29.7 ins. over central Europe generally. Some other very shallow systems over the more western countries. Rising slowly over our Islands all day, but falling irregularly in parts of Norway and Sweden.

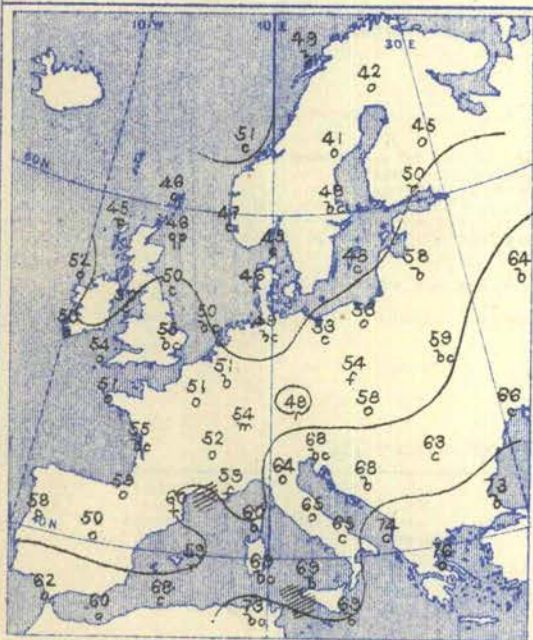
6 p.m.



Friday, 27th May.

Temperature and Weather.

8 a.m.

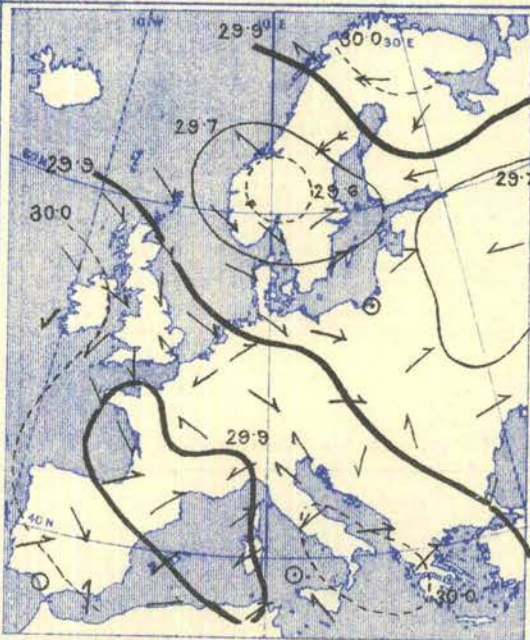


Weather in morning fair as a whole over the Mediterranean, but changeable in all other places, with rain in several localities, both over our Islands and several parts of Continental Europe. Slight rain falling later over many parts of the United Kingdom and the eastern shores of the North Sea, and large quantities in the south of France (1·5 ins. at Nice) with a thunderstorm at Bordeaux and Biarritz. Rain falling also in Austria and the south of Russia.

Temperature not changing decidedly anywhere. Morning readings highest, 76° at Athens, 74° at Brindisi, 73° both at La Calle and at Constantinople; considerably above 60° over the Mediterranean as a whole, as well as over south-eastern Europe and central Russia; above 55° over Germany, France, and our Islands. Lowest, 41° at Hernösand, 42° at Haparanda, 45° at Stornoway, 46° at Sumburgh Head, Aberdeen, and Fanö. Rising later to between 50° and 57° over Ireland, to between 60° and 63° in several parts of England, to 64° at Paris, and 67° at Perpignan; exceeding 70° over southern Europe, and reaching 81° at Palermo.

Barometer and Wind.

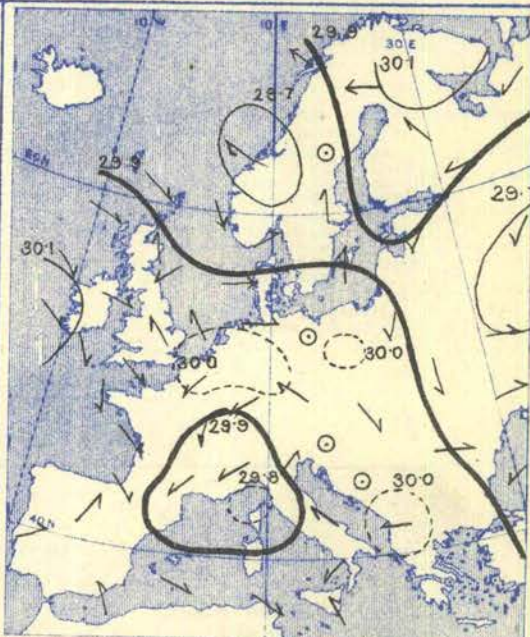
8 a.m.



Wind (1) anticyclonic from North-West and North-East over our islands, light and variable over France, Italy, Dalmatia, and Greece; (2) cyclonic (and moderate to strong) from North-West and South-West over the southern parts of Scandinavia, and from East in the north; (3) very light and cyclonic over the west and south-west of France and the north-east of Spain. No decided change later.

Barometer highest, (1) 30.0 ins. and more to 29.9 ins. over the British Islands, and in a band extending thence in a south-easterly direction across the east of France and the west of Germany to Switzerland and Italy; (2) 30.0 ins. and more to 29.9 ins. over the most northern parts of Europe. Lowest, (1) below 29.6 ins. in a shallow depression over the south of Norway; below 29.7 ins. in another over central Russia; (2) below 29.9 ins. in a very shallow, but complex, system over the west and south of France and some parts of the Mediterranean. Rising somewhat irregularly later over our Islands and western Europe.

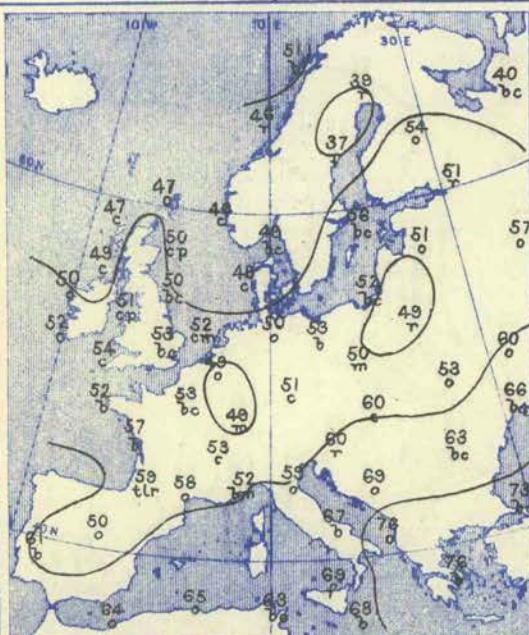
6 p.m.



Saturday, 28th May.

Temperature and Weather.

8 a.m.

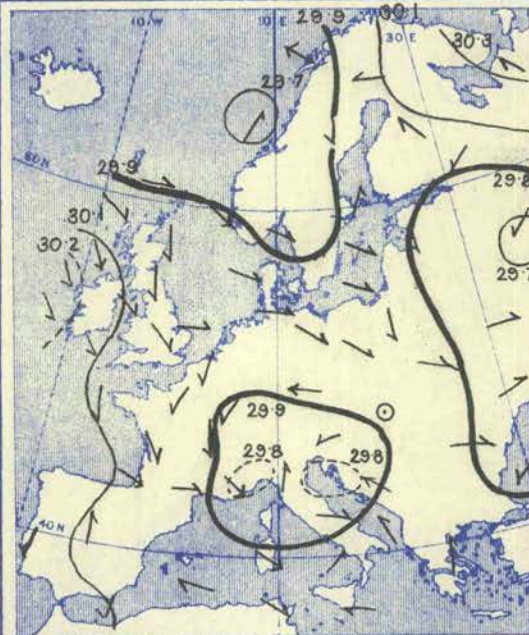


Weather in morning fair or fine over the greater part of our Islands, but showery at some of our northern stations. Dull over Spain, the south of France and northern Italy, with rain at Turin and Trieste, and a thunderstorm at Biarritz; rainy also over the Gulf of Finland and at Christiansund, but fair over northern and central Europe as a whole. Rain falling later at several of our northern and north-western stations; no important change occurring elsewhere, but solar halo seen at Liverpool.

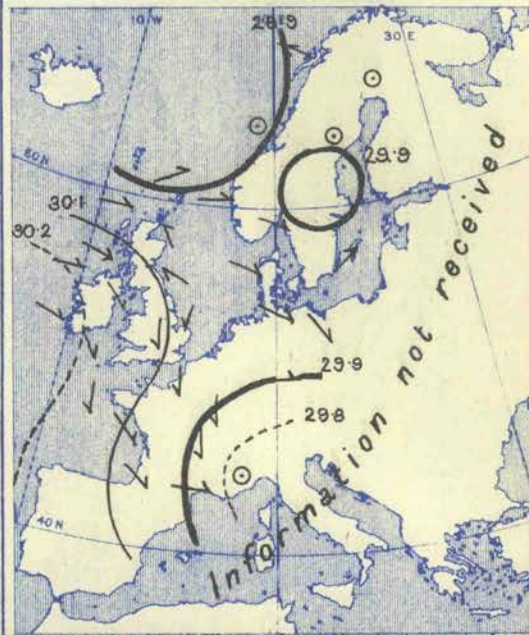
Temperature changed very irregularly. Morning readings highest, 76° at Brindisi and Athens, 73° at Patras and Constantinople, and 69° at Lesina and Palermo; above 60° in many parts of southern and eastern Europe. Lowest, 37° at Hørnösand, 39° at Haparanda, 40° at Archangel, and 46° at Wisby, Christiansund and Skudesnaes. Rising during day to 60° or a little above it at several of the English and Irish stations, and to 65° at Leith. Exceeding 65° in many parts of France and Germany, and reaching 68° at Lorient and Lyons.

Barometer and Wind.

8 a.m.



6 p.m.



Wind light to moderate from the Northward or North-Westward over the greater part of our Islands and France, but Easterly or North-Easterly in the eastern parts of the Channel. Westerly in Denmark; Southerly at most of the Scandinavian stations. Easterly or North-Easterly over the northern and central parts of Russia; South-Westerly in the south of Russia. Calm or variable in Austria, Westerly or South-Westerly in Italy; variable over the Spanish Peninsula. Subsequently backing to the Westward in the north of Scotland; no important change occurring elsewhere.

Barometer highest, 30.2 ins. and upwards in the west of Ireland, 30.0 ins. and upwards in an anticyclone extending from the Atlantic over the whole of our Islands and also over Spain, and spreading in the form of a broad band over the Netherlands and the northern parts of Germany. Lowest, 29.7 ins. and less in a depression off the west of Norway, and also in another disturbance over central Russia; 29.8 ins. and less in two other systems lying respectively over the Gulf of Genoa and over the northern part of the Adriatic. New disturbance beginning to approach our extreme northern coasts in evening.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind; the force is indicated thus: $\Rightarrow$ = a heavy gale; $\Rightarrow$ = a gale; $\Rightarrow$ = a fresh to strong breeze; $\Rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

In the course of this week the distribution of pressure over Europe has been constantly, though gradually, changing. At no time were the gradients steep, but in direction they were altering so as to cause considerable changes in the direction of the wind, and in many cases showery and thundery weather.

At the very commencement pressure was highest over northern and central Europe, lowest over the Bay of Biscay and off our south-western coasts on the one hand, and over the Black Sea on the other—the western and north-western parts of Europe having winds from between South and East, while Russia had calms and North-Easterly airs. Then there was a complex period—pressures exceeding 29.9 ins. being reported, both over the most northern and the most southern parts of our area, while a “trough” of relatively low values separated the two. North-Easterly and Easterly breezes were felt in the north, variable and South-Westerly to Westerly winds in the south, but none of great strength. After Tuesday, however, the highest pressures were located in the north and west, the lowest over Russia and southern Europe, and cool Northerly winds and dry weather were reported over the British Islands and north-western Europe.

At the close of the week this was all changing, and depressions were advancing over our northern districts from the north-westward, with a decided fall of temperature and rain.

There have been no general and heavy rains during the week, but in many localities thunder showers have brought considerable temporary falls, and in most places there has been a little rain at times. Temperature has been much higher over Russia than over north-western Europe.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 122.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	23.4	?	19	?	WESTBOURNE (Emsworth)	43.4*	- 8.0	39*	-
STRATHPEFFER SPA	23.7	- 15.5	20	- 14	WATERGATE (Emsworth)	35.7	?	32	?
EDINBURGH	30.8	- 6.5	27	- 6	BRIGHTON	35.0	- 14.1	32	- 13
MORPETH	20.5	?	13	?	EASTBOURNE	38.6	- 12.8	35	- 12
NEWCASTLE-ON-TYNE	17.8	?	15	?	VENTNOR HOSPITAL	48.2	?	44	?
OSWALDKIRK (Yorkshire)	42.8	+ 3.0	38	+ 3	SOUTHPORT	61.9	?	54	?
SHEFFIELD	24.9	?	22	?	COLWYN BAY	60.2	?	53	?
WORKSOP	34.7	- 5.1	31	- 5	TENBY	29.5*	- 20.3	27*	- 18
THURCASTON (Leicestershire)	26.1	- 15.6	23	- 15	NEWQUAY	50.6	+ 2.1	46	0
HOLLESLEY BAY	67.5	?	52	?	TORQUAY	41.8*	- 8.4	38*	- 8
PLUMSTEAD COMMON	31.7	?	29	?	GUERNSEY	52.6*	- 7.6	49*	- 8
MARGATE	41.3	- 3.5	33	- 3					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,
By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.

VOL. XV. No. 22.]
Third Series.

WEEK ENDING SATURDAY, JUNE 4TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 128.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	61	36	51.7	41.0	46.6	4 below	Day-deg. 32	Day-deg. -18	Day-deg. 3	Day-deg. 0	Day-deg. 463	Day-deg. + 63	Day-deg. 395	Day-deg. -222
	1. SCOTLAND, EAST	64	33	55.8	40.5	47.7	4 below	46	-19	4	+ 2	559	+ 48	427	-221
	2. ENGLAND, N.E.	64	34	57.2	41.7	48.9	3 below	50	-12	1	0	583	+ 85	333	-215
	3. ENGLAND, EAST	63	37	58.7	43.2	50.4	4 below	59	-21	0	- 2	662	+ 17	410	-206
	4. MIDLAND COUNTIES	62	35	57.5	42.8	49.6	5 below	53	-29	0	- 1	688	+ 6	404	-214
	5. ENGLAND, SOUTH	65	36	59.3	45.9	52.1	3 below	71	-17	0	- 1	760	+ 38	234	-242
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	60	39	54.9	43.1	48.6	4 below	46	-24	0	- 1	627	+ 73	245	-216
	7. ENGLAND, N.W.	60	36	55.4	44.4	49.5	5 below	53	-22	0	- 1	646	+ 72	215	-243
	8. ENGLAND, S.W.	63	36	57.1	46.2	51.3	3 below	65	-17	0	0	767	+ 54	205	-156
	9. IRELAND, NORTH	62	38	55.0	44.6	49.5	3 below	53	-19	0	- 1	705	+ 72	227	-167
	10. IRELAND, SOUTH	62	40	57.1	47.1	51.8	2 below	69	-10	0	- 1	865	+ 94	165	-134
	-CHANNEL ISLANDS.	62	46	58.3	49.6	53.7	2 below	82	- 5	0	0	1019	+186	55	- 93

Rainfall.

Bright Sunshine.

DISTRICTS. (See p. 128.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week	No. of Rainy days.	Differ- ence from Mean.	Total fall.	Differ- ence from Mean.	Hours recorded.	Differ- ence from Mean.	Percent- age of possible Duration.	Differ- ence from Mean.	Hours recorded.	Differ- ence from Mean.	Percent- age of possible Duration.	Differ- ence from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	10ths of in. 12	10ths of in. 6 more	120	+19	Ins. 26.4	Ins. + 7.2	28	-13	23	-11	505	+25	27	+ 1	
	1. SCOTLAND, EAST	6	6	1 more	91	+10	11.0	- 0.5	30	-12	25	-11	532	+ 1	30	0	
	2. ENGLAND, N.E.	6	6	1 more	81	+ 4	8.6	- 0.7	23	-19	19	-18	498	-21	28	- 1	
	3. ENGLAND, EAST	6	8	3 more	75	0	7.5	- 1.6	36	-13	31	-12	578	-39	31	- 3	
	4. MIDLAND COUNTIES	6	6	1 more	75	+ 3	7.9	- 2.3	28	-16	24	-15	518	-25	29	- 2	
	5. ENGLAND, SOUTH	5	5	0 (average)	71	+ 1	8.5	- 2.1	34	-11	31	-11	556	-46	32	- 3	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	7	0 (average)	103	+17	16.8	- 2.0	28	-13	24	-12	564	+42	33	+ 2	
	7. ENGLAND, N.W.	6	10	5 more	87	+ 9	14.5	+ 2.6	26	-19	23	-16	600	+72	34	+ 4	
	8. ENGLAND, S.W.	5	5	1 less	84	+ 5	12.8*	- 1.6	37	-13	33	-12	655	-13	36	- 1	
	9. IRELAND, NORTH	7	9	3 more	107	+16	14.9	+ 1.1	23	-19	20	-17	568	+35	32	+ 2	
	10. IRELAND, SOUTH	5	7	1 (more)	82	- 3	14.5	- 0.9	27	-18	23	-17	595	-19	33	- 1	
	- CHANNEL ISLANDS.	3	2	3 less	92	+ 6	9.9	- 2.5	51	- 3	47	- 4	21	-38	40	- 2	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this week was very changeable and showery in all parts of the Kingdom. Hail was experienced in many places at about the middle of the week; there was a fall of sleet at Donaghadee on Tuesday, and a little snow at Oxford on Wednesday. Thunderstorms occurred in several parts of England, as well as in the south of Scotland.

Temperature was below the mean, the deficit ranging from 2° in Ireland S. and the Channel Islands to as much as 4° over England E. and Scotland and to 5° in the Midland counties and England N.W. The highest of the maxima were recorded on rather irregular dates; they varied from 65° in England S. to 60° in England N.W. and Scotland W. The lowest of the minima were registered, as a rule, on June 1st, and ranged from 33° in Scotland E. and 34° in England N.E. to 40° in Ireland S. and 46° in the Channel Islands. On the grass there was a distinct frost.

Rainfall was more than the mean in most districts, especially in Scotland N. and England N.W. In England S.W. and the Channel Islands, however, it was less than the normal, while in England S., and Scotland W., the current falls and the normal were identical.

Bright Sunshine was very deficient over the whole Kingdom. The percentage of possible

duration ranged from 47 in the Channel Islands to 33 in England S.W., 24 in the Midland counties and Scotland W., 20 in Ireland N., and to 19 in England N.E.

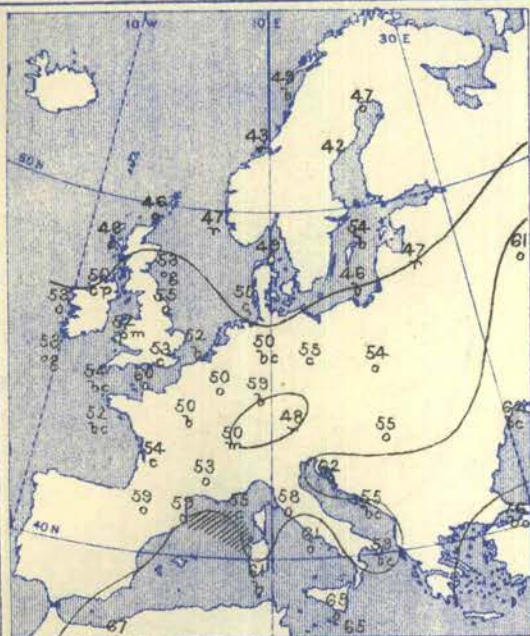
Barometer and Wind.—At the commencement of the week a depression was passing eastwards in the far north, while an anticyclone extended over our south-western coasts from the Atlantic. By Tuesday another depression had appeared in the north, and a secondary "hollow" had been formed over the North Sea. The conditions during Wednesday and Thursday were influenced by a well-formed disturbance, the centre of which moved north-eastwards from the southern parts of the North Sea to Denmark, and then north-westwards to a position between the Shetlands and Norway. By Friday morning this depression had disappeared, but during the remainder of the week another low-pressure system existed off our extreme north-western coasts. North-Westerly and Northerly winds were most prevalent during the greater part of the week, and these blew very strongly on our north-western coasts on Wednesday; a gale at Stornoway and Malin Head, and freshly in most other districts. Towards the end of the period the winds backed to the South-Westward very generally, and became light and moderate in force.

* An Asterisk is inserted in all places for which the information is not usually received.
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 29th May.

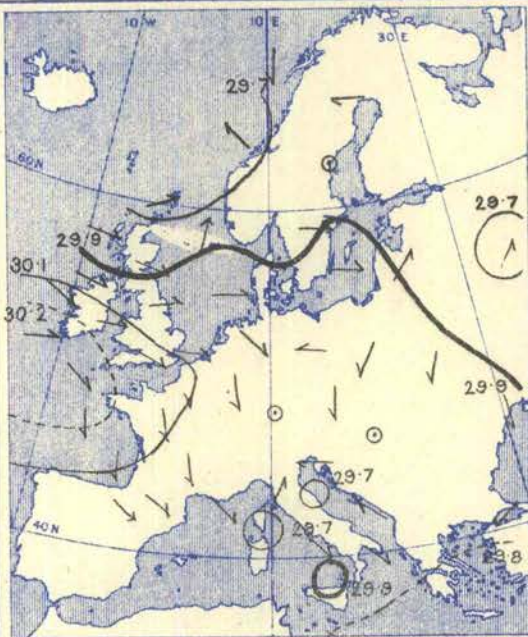
Temperature and Weather.

8 a.m.

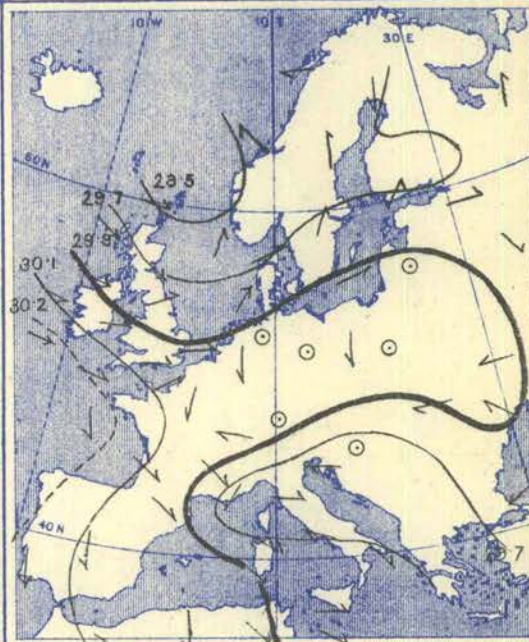


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the southern parts of the United Kingdom, and also over the north of France, the Netherlands, north Germany, and the south of Sweden. Cloudy or dull elsewhere, with rain in the west of Norway, as well as at Riga. A little rain falling later in most parts of northern and north-western Europe, and larger quantities in Italy—as much as 1.1 ins. at Pesaro.

Temperature risen slightly in our Islands, fallen in the west of France and in Italy, changed irregularly elsewhere. Morning readings highest, 76° at Constantinople, 67° at Nemours, and 65° at Palermo and Malta; above 60° in many parts of southern Europe, and also over central Russia (Spanish and Algerian reports not received). Lowest, 42° at Hernösand, 43° at Christiansund, and 46° at Wisby, Karlstad, Sumburgh Head, and Stornoway. Rising during day to 60° or a little above it in many parts of England, and also at Donaghadee; exceeding 70° over southern Europe, and reaching 77° at Brindisi.

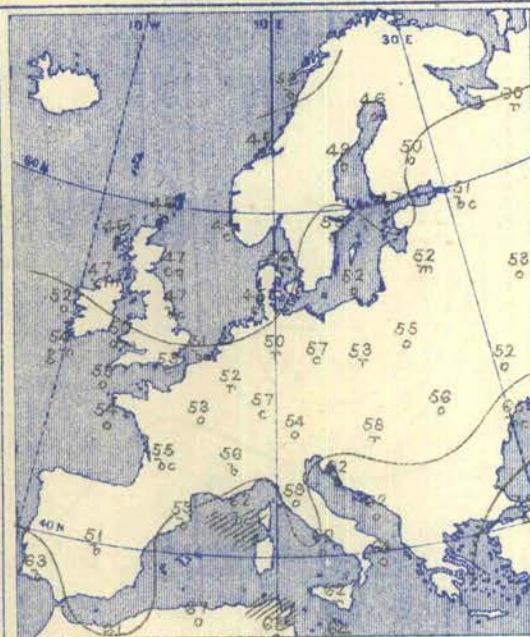
Wind light to moderate from the Westward over all the more northern parts of the United Kingdom, and also in Denmark; light from the North-Westward on our southern coasts, and from the Northward in France and Germany. Southerly or South-Easterly in the west of Norway. Variable in Russia, Austria, and Italy. Subsequently increasing to a strong breeze from the Westward or North-Westward on our extreme north-west coasts. No important change occurring elsewhere.

Barometer highest, 30.2 ins. and upwards in an anticyclone lying over the south-west of our Islands and the extreme north-west of France. Lowest, 29.7 ins. and less in a depression lying off the west of Norway, and also in shallow disturbances lying respectively over central Russia, Corsica, and the northern part of the Adriatic. Norwegian depression spreading southwards later, and barometer falling in most parts of western Europe.

Monday, 30th May.

Temperature and Weather.

8 a.m.

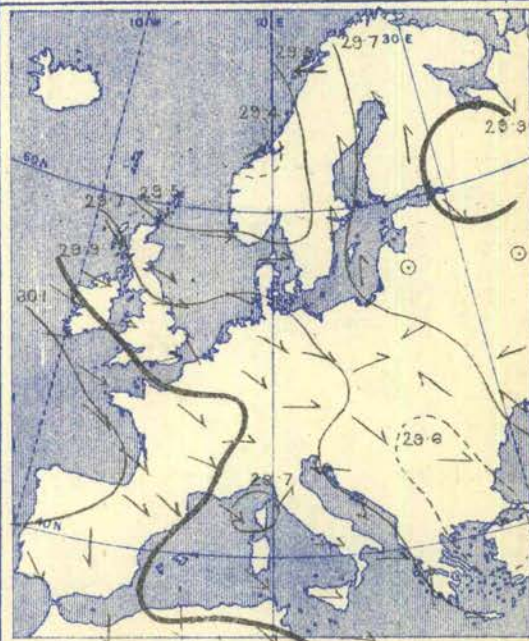


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the eastern parts of Great Britain, but changeable and showery in other parts of our Islands, with hail at Wick. Cloudy or dull in most of the Continental countries, with rain in several of isolated places; fine over the Spanish Peninsula and the south of France, as well as in the south of Russia. Rain falling later in nearly all parts of western and central Europe, and also in Scandinavia.

Temperature fallen in our Islands and the Netherlands; changed very irregularly elsewhere. Morning readings highest, 75° at Constantinople, 67° at Barcelona and Algiers, and 65° at Odessa; above 60° in many parts of southern Europe. Lowest, 48° at Uleaborg, 44° at Skudsmoes, and 45° at Panó; below 50° over the northern parts of the United Kingdom. Remaining below 55° all day on our north-western and extreme northern coasts, and below 60° in most other parts of the Kingdom, but reaching 61° at Leith and Dungeness. Exceeding 70° over southern Europe, and reaching 77° at Brindisi.

Wind light to moderate from the North-Westward in our Islands and France, and strong from the same quarter on the eastern shores of the North Sea. Southerly over Germany, the Baltic, Finland, and the south of Sweden, but variable over the northern parts of Scandinavia. Light from the Eastward or North-Eastward over Austria, northern Italy, and the south of Russia, but North-Westerly in the south of Italy, and North-Easterly over the Spanish Peninsula. Subsequently backing to the Westward on the eastern shores of the North Sea; no important change occurring elsewhere.

Barometer highest, 30.1 ins. and upwards in an anticyclone spreading from the Atlantic over the south-west of Ireland, the Bay of Biscay, and the northern parts of the Spanish Peninsula; 29.9 ins. and less over the western parts of Russia. Lowest, 29.4 ins. and less in a depression with its centre over the south of Norway; 29.7 ins. and less in a shallow and somewhat complex area lying over Italy and the south-east of Europe. Norwegian depression subsequently moving northwards; low-pressure system in the south-east becoming more clearly defined, and well marked anticyclone spreading over the Gulf of Venice.

Temperature and Weather.

8 a.m.

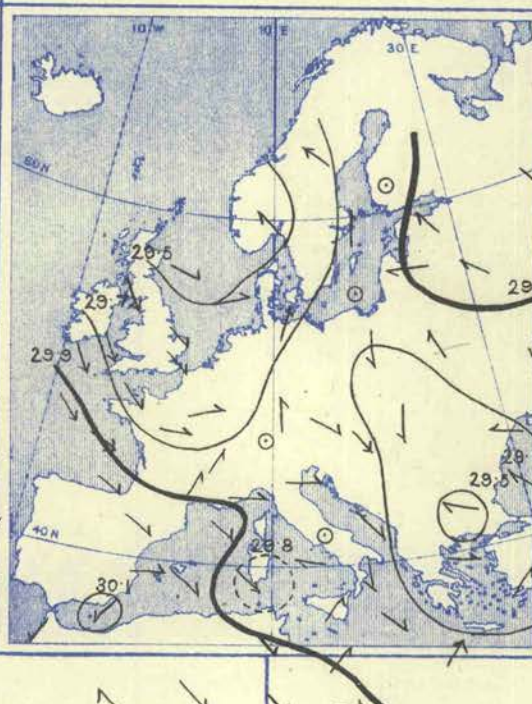


Weather in morning changeable and showery over the whole of the United Kingdom. Fine over Denmark, Norway, and the northern parts of Sweden and Russia, as well as in the Spanish Peninsula and the extreme south of France; cloudy or dull in other parts of the Continent, with rain over the Netherlands, the Baltic Provinces, and the south of Sweden, as well as at Orskov. Rain falling later over western, northern, and central Europe generally, and sleet or snow in the northern parts of the United Kingdom. Thunderstorm occurring in London, and thunder only at Spurn Head.

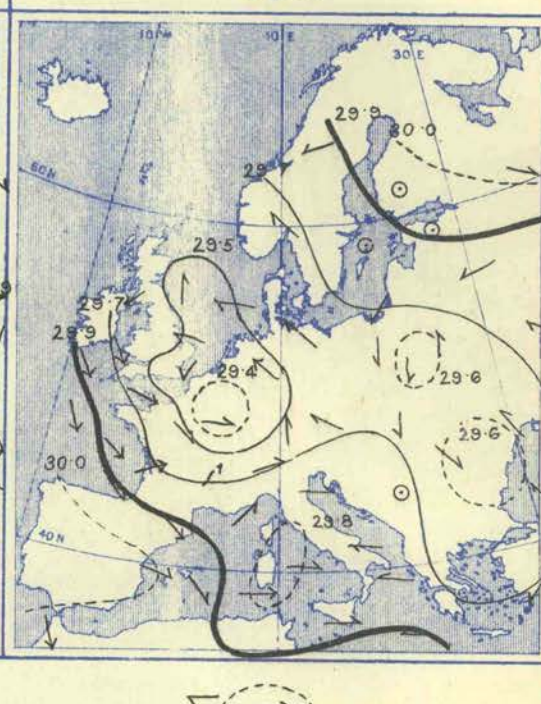
Temperature fallen in the west and north of our Islands, and also in Germany; changed rather irregularly elsewhere. Morning readings highest, 74° at Constantinople, 71° at Patras, and 69° at Athens and Brindisi; above 60° over southern and south-eastern Europe generally. Lowest, 41° at Stornoway, 42° at Nairn, and 43° at Malin Head; below 50° over the northern parts of our Islands generally. Remaining below 50° all day at some of our own northern stations, and below 60° in nearly all other parts of the Kingdom. Exceeding 70° over southern Europe generally, and reaching 77° at Lisbon, Rome, and Palermo.

Tuesday, 31st May. Barometer and Wind.

8 a.m.



6 p.m.

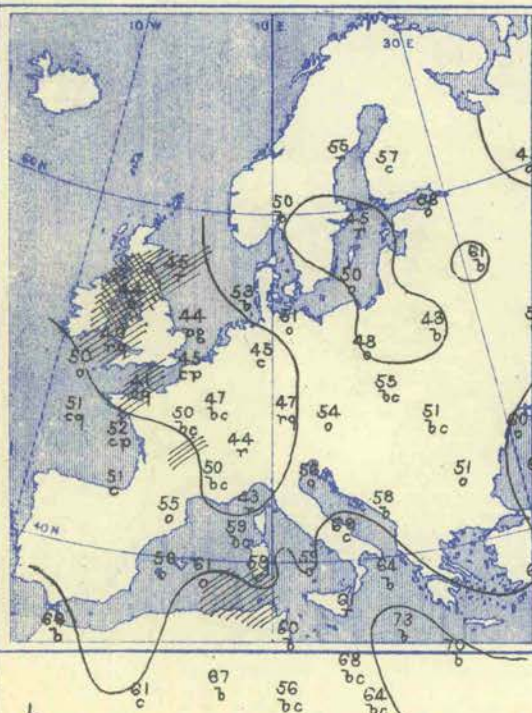


Wind moderate to fresh from the North-Westward in the west and north of our Islands, and also in the west of France; light from the Westward or South-Westward over the east and south-east of England and the adjacent parts of the Continent; Southerly in Denmark; South-Easterly in the west of Norway. Light from the Eastward or South-Eastward over Russia, but North-Westerly over eastern Germany, and Westerly in Austria. Southerly or South-Westerly in Italy; variable over the Spanish Peninsula. Subsequently blowing hard from the North-Westward on our western coasts, and from the Westward in the English Channel.

Barometer highest, 30.0 ins. and upwards over Morocco, the Spanish Peninsula, the Bay of Biscay, and the west of France; 29.8 ins. and upwards over northern Russia. Lowest, 29.5 ins. and less in two depressions—one lying off the west of Norway, and the other over eastern Austria; 29.3 ins. and less in another disturbance over the Gulf of Genoa. Well-marked secondary system forming later over the southern part of the North Sea.

Temperature and Weather.

8 a.m.

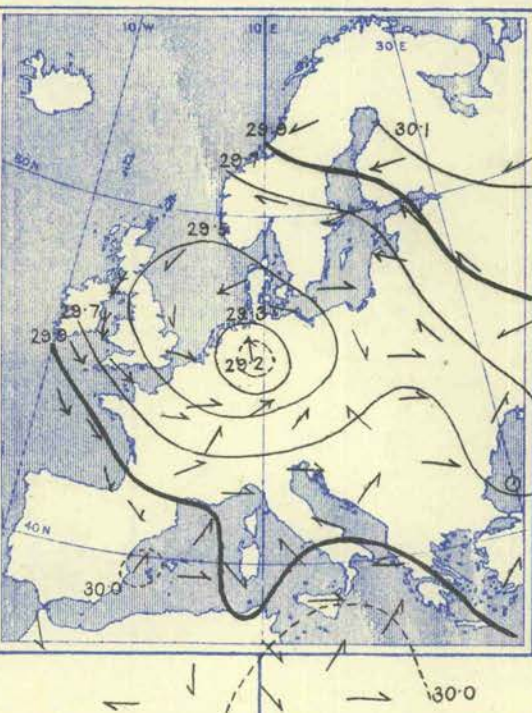


Weather in morning changeable and showery over our Islands and a considerable portion of the Continent. Fine over the Spanish Peninsula and southern Italy, as well as in the Gulf of Finland and the southern parts of Norway. Showers of hail, sleet, or cold rain falling during day over the whole of the United Kingdom, and slight snow even as far south as Oxford and Dunstable; thunder heard at Spurn Head and the North Foreland. Heavy rain falling at some of the Danish and Swedish stations.

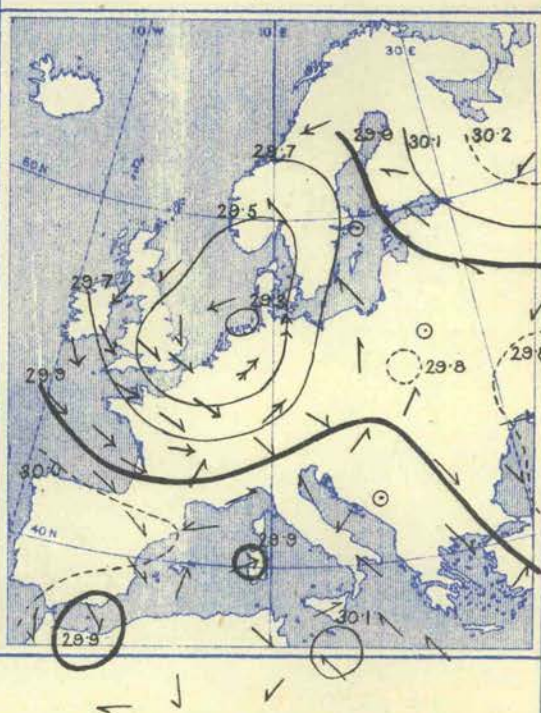
Temperature fallen in England and France, changed irregularly elsewhere. Morning readings highest, 73° at Brindisi, 70° at Athens, and 69° at Trieste; above 60° in most parts of southern and eastern Europe, and above 55° in Finland and Lapland. Lowest, (1) 43° at Belfort, and 44° at Brussels; (2) 41° at Stornoway and Aberdeen; (3) 45° at Archangel and Helsingfors. Remaining below 55° all day at most of our own western and northern stations, and touching 60° at Hurst Castle only. Exceeding 60° at some of the Swedish and German stations, exceeding 70° in the extreme south of France, and exceeding 75° in many parts of Spain and Italy, the highest reading of all being 84° at Madrid.

Wednesday, 1st June. Barometer and Wind.

8 a.m.



6 p.m.



Wind strong to a gale from the Northward on our extreme north-west coasts; strong from the North-Westward in the west and south-west of our Islands, and moderate from the same quarter in the west and south of France. Moderate from the Westward over the eastern and central parts of England, South-Westerly over central France, the Netherlands, and Germany; South-Easterly in Finland; Easterly or North-Easterly over Scandinavia and the north-east of Scotland. Variable in Austria and the south of Russia; light from the Southward or South-Westward in Italy. Subsidising later on our north-west coasts, but strong Southerly and South-Westerly gales springing up in Denmark.

Barometer highest, 30.1 ins. and upwards in the extreme north of Russia; 30.0 ins. and upwards over southern Italy and the neighbouring parts of the Mediterranean. Lowest, 29.2 ins. and less in a well-marked depression with its centre a little to the westward of Fano. Depression subsequently moving slowly northwards; several small secondary disturbances passing southward and south-eastward across the United Kingdom and the North Sea.

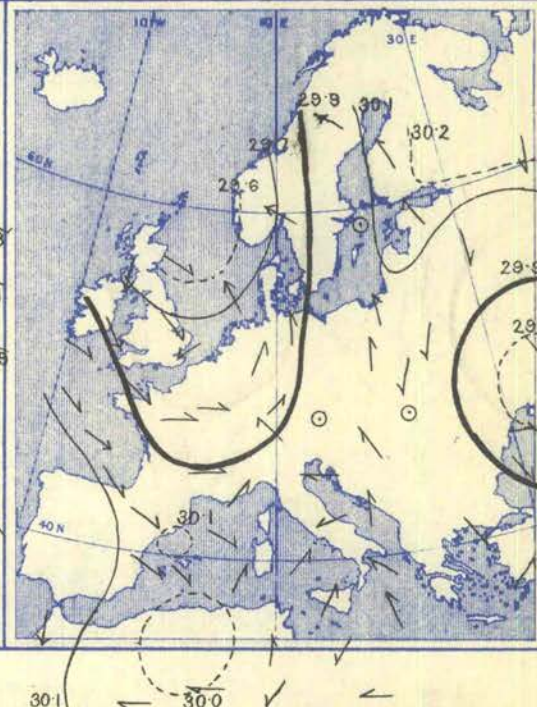
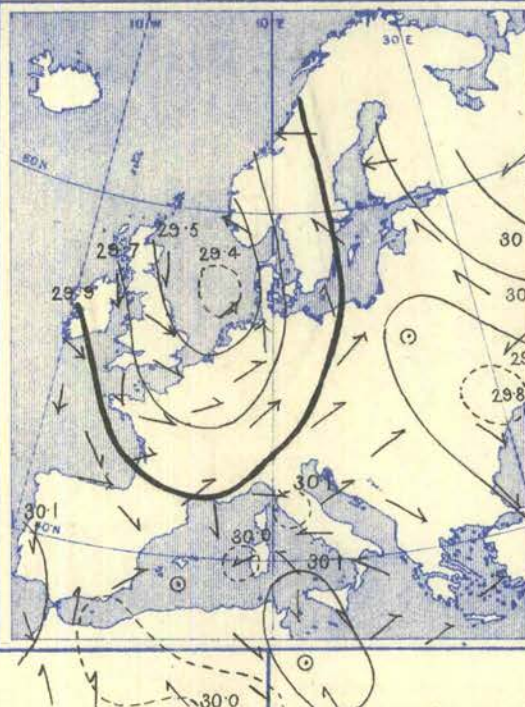
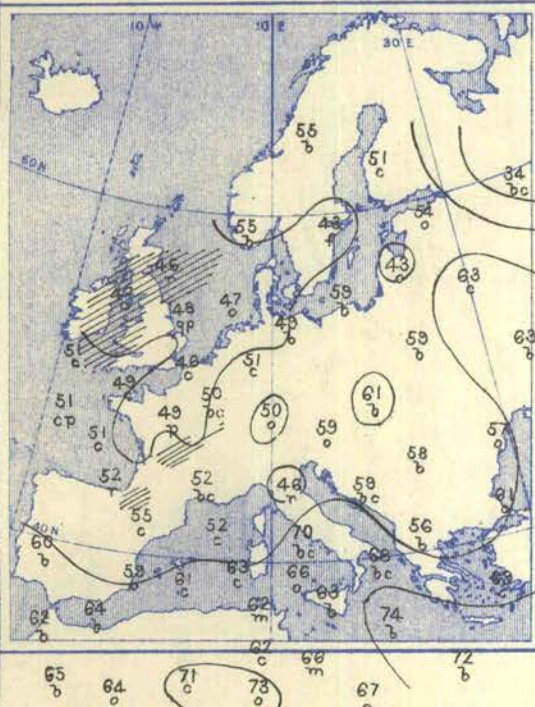
Temperature and Weather.

8 a.m.

Thursday, 2nd June. Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning changeable and showery over nearly the whole of the United Kingdom. Fine over southern Europe generally, and also over the Baltic and the south of Sweden, but cloudy or dull in most other parts of the Continent, with rain at Münster and Munich. Showers falling later in all but the south-western parts of our Islands, and also over the western and central parts of the Continent; thunder and lightning occurring at several of the English stations.

Temperature risen in Ireland and Scotland, changed very irregularly elsewhere. Morning readings highest, 74° at Brindisi, 73° at La Calle, and 72° at Athens; above 60° over southern Europe generally, and very little below it at some of the Baltic stations. Lowest, (1) 34° at Archangel, and 20° at Helsingfors; (2) 40° at Sumburgh Head, Shields, York, Liverpool, and Oxford. Daily maxima below 55° at many of our own northern and eastern stations, and below 60° in most other parts of the Kingdom, but thermometer reaching 64° at Leith. Exceeding 70° over southern Europe generally, and reaching 79° at Palermo.

Wind fresh to strong from the Northward or North-Westward in the west and north of our Islands; moderate from the South-Westward in the south-east of England, and also over the Netherlands, Germany, and Denmark; strong from the Southward in the south, and from the Eastward in the north of Scandinavia. Variable over southern Europe generally, but Northerly on the Portuguese coasts. Moderating later in the west and north of our Islands, and backing slightly in the west of Ireland.

Barometer highest, 30.3 ins. and upwards in an anticyclone over northern Russia; 30.1 ins. and upwards in two other systems lying respectively off the Portuguese coasts and over Sicily and central Italy. Lowest, 29.4 ins. and less in a well-marked depression with its centre between the Shetlands and the Norwegian coasts; 29.8 ins. and less in a shallow system over central Russia. Norwegian depression subsequently moving northwards, and barometer rising in most parts of western Europe.

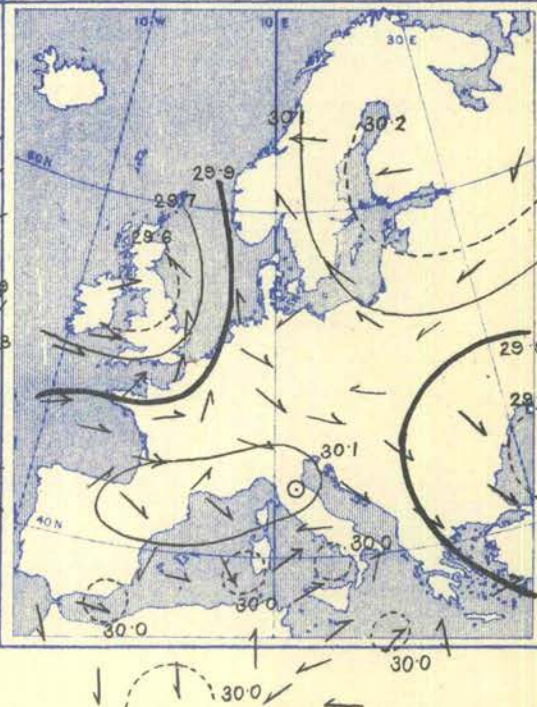
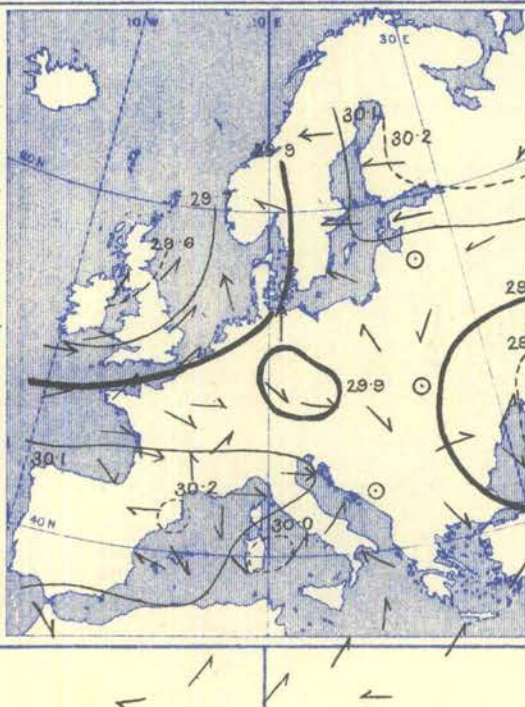
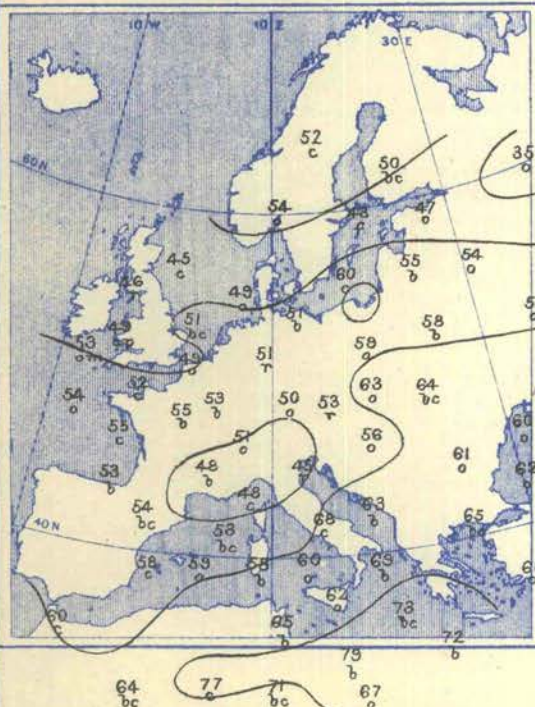
Temperature and Weather.

8 a.m.

Friday, 3rd June. Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine over England and France, and also over Austria, Greece, and southern Italy. Cloudy or dull in nearly all other parts of Europe, with rain in the west of Scotland, as well as at some of the Danish and German stations. Showers falling later in many parts of the United Kingdom, and heavy rain at Memel. Solar and lunar halos seen in the south of England.

Temperature risen over the greater part of our Islands, but changed irregularly elsewhere. Morning readings highest, 79° at Palermo, 77° at Algiers, and 73° at Athens; above 65° at most of the Mediterranean and Adriatic stations, and above 60° over southern and eastern Europe generally. Lowest, (1) 35° at Archangel, and 43° at Helsingfors; (2) 45° at Sumburgh Head, and 46° at Stornoway; (3) 45° at Munich, and 48° at Paris and Belfort. Rising during day to between 60° and 35° over the eastern and central parts of England; exceeding 75° in many parts of southern Europe, and reaching 84° at Brindisi.

Wind light to moderate from the Westward or South-Westward over the greater part of the United Kingdom, the Netherlands, and Germany, but Southerly in the north of Scotland; Easterly or South-Easterly over northern Europe, and strong in force at Skudenesnes. Light from the Eastward in the west of France, but from the North-Westward in the south of that country; Southerly or South-Westerly over Italy and Greece; variable over the Spanish Peninsula. Subsequently shifting to the Northward in the west of France; no important change occurring elsewhere.

Barometer highest, 30.2 ins. and upwards in an anticyclone over northern Russia; 30.1 ins. and upwards in another system over the Bay of Biscay, France, and the northern parts of Spain. Lowest, 29.4 ins. and less in a shallow depression off the north-west of Scotland; 29.8 ins. and less in another shallow system over the south of Russia; 29.9 ins. and less in a third over Denmark and north Germany. Scotch depression spreading slowly to the southward later; Danish disturbance moving north-eastwards.

Saturday, 4th June.

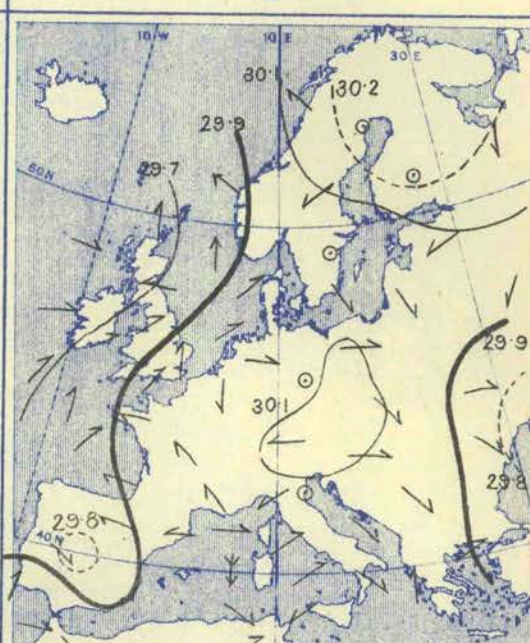
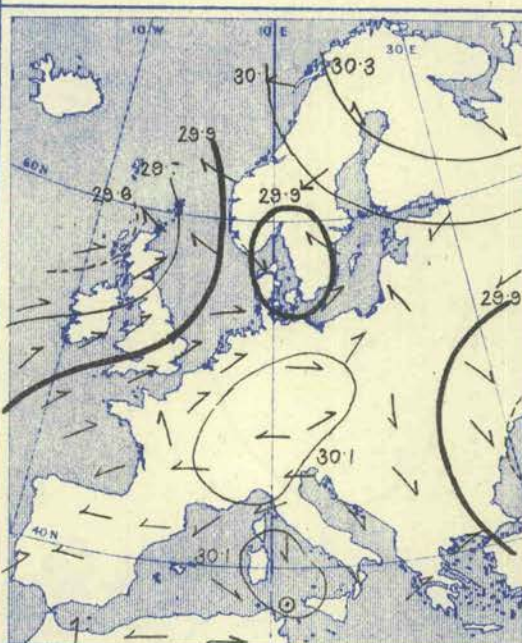
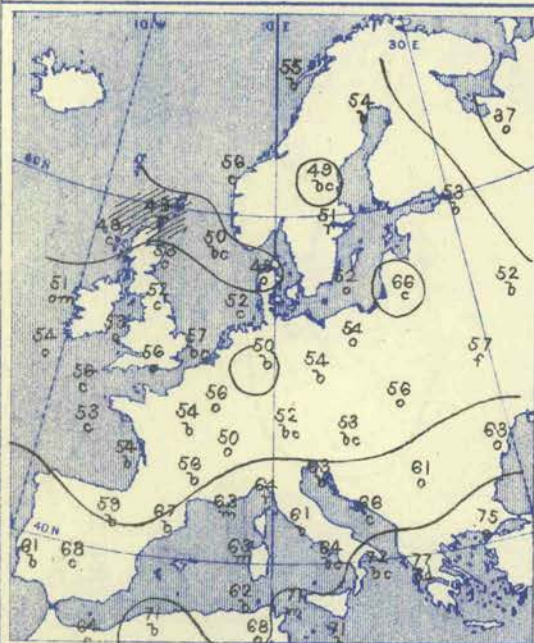
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull in most parts of our Islands, with rain at several of our western stations and also at Sumburgh Head. Fine over the greater part of the Continent, but dull in the south of Sweden, with rain at Stockholm. Rain falling also at Turin and Leghorn. Showers falling later in the west and north of our Islands generally, with thunder at Wick. Thunder and lightning occurring also in the west of France. Solar halos seen at Wick, Oxford and Jersey.

Temperature risen slightly in our Islands, France and Norway, fallen in most other countries. Morning readings highest, 77° at Athens, 75° at Patras and Constantinople, and 72° at Brindisi; above 60° over southern and south-eastern Europe generally. Lowest, (1) 37° at Archangel and 49° at Hernösand; (2) 48° at Sumburgh Head and Stornoway; (3) 48° at Wiesbaden and 50° at Belfort. Rising during day to 60° or slightly above it in many parts of Great Britain; exceeding 75° over the greater part of southern Europe and reaching 85° at Madrid and 84° at Bilbao, Florence and Brindisi.

Wind light to moderate from the South-Westward over the greater part of our Islands, the Netherlands and north Germany; Easterly or South-Easterly at most of the Scandinavian stations, but North-Westerly over the Skager Rack. North-Easterly over the northern parts of Russia, but North-Westerly in the south of that country and also in Austria. Variable in Italy; Easterly or North-Easterly over Spain and the west and south of France. Subsequently backing to the Southward on our extreme south-west coasts; no important change occurring elsewhere.

Barometer highest, 30.3 ins. and upwards in an anticyclone lying over the extreme north of Russia; 30.1 ins. and upwards in another system over Germany, Switzerland, the east of France and northern Italy. Lowest, 29.6 ins. and less in a shallow depression off the north-west of Scotland; 29.8 ins. and less in another disturbance over the south of Sweden and also in a shallow area over the extreme south of Russia. Depression off Scotch coasts subsequently moving northwards, but new disturbance approaching the south-west of our Islands. Swedish depression entirely dispersing.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\Rightarrow$ = a heavy gale; $\Rightarrow$ = a gale; $\Rightarrow$ = a fresh to strong breeze; $\Rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

Shortly after the commencement of this week the anticyclone which had previously advanced over our Islands from the westward receded again over the Atlantic, while a depression moved south-eastwards over Norway, the latter system being eventually forced away to the northward by a new high pressure area which gradually formed over northern Europe.

On May 31st, however, a well-marked secondary disturbance was developed over the southern part of the North Sea; its centre moving first in a north-easterly direction to the Danish coasts, and afterwards in a northerly and north-westerly direction along the south and west of Norway. The progress of the depression was attended by very strong North-Westerly to Westerly winds over the greater part of our Islands, with a gale in the extreme north-west, and by cold, wet weather over western Europe generally, the maximum temperatures recorded between May 31st and June 1st, being below 60° in nearly all places. Snow or sleet fell in many parts of our Islands on June 1st even as far south as Oxford.

As the depression passed away to the northward a rather decided improvement in the weather took place, but in the more northern parts of our Islands and the Continent this proved merely temporary. In this country the conditions were affected by a shallow disturbance which appeared off the north-west of Scotland, and which spread gradually southward, while over northern Europe they were influenced by another shallow disturbance which was formed over north Germany on the night of June 2nd, and which afterwards moved northwards to Scandinavia. Rain was therefore experienced in the west and north of our Islands, and also over the northern and central parts of the Continent, but temperature was inclined to rise generally.

Over southern Europe the week was almost continuously fine and warm, but on May 29th, when shallow depressions appeared over the Adriatic and Mediterranean, heavy rain was experienced in many parts of Italy.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 128.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	41.7	?	34	?	WESTBOURNE (Emsworth)	38.4*	-13.0	34*	-14
STRATHPEFFER SPA	24.7	-15.1	20	-13	WATERGATE (Emsworth)	26.7	?	24	?
EDINBURGH	28.4	-9.4	24	-9	BRIGHTON	42.9	-7.0	38	-7
MORPETH	21.4	?	18	?	EASTBOURNE	41.2	-10.5	37	-10
NEWCASTLE-ON-TYNE	22.8	?	19	?	VENTNOR HOSPITAL	37.8	?	34	?
OSWALDKIRK (Yorkshire)	21.6	-18.3	19	-15	SOUTHPORT	31.4	?	27	?
SHEFFIELD	28.9	?	25	?	COLWYN BAY	29.2	?	26	?
WORKSOP	23.9	-16.1	21	-14	TENBY	40.8*	-10.1	36*	-9
THURCASTON (Leicestershire)	26.7	-15.1	23	-15	NEWQUAY	32.0	-18.0	29	-17
HOLLESLEY BAY	30.0	?	32	?	TORQUAY	41.4*	-10.8	37*	-10
PLUMSTEAD COMMON	10.2	?	14	?	GUERNSEY	*	*	*	*
MARGATE	33.3	-11.7	30	-11					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.VOL. XV. No. 23.]
Third Series.

WEEK ENDING SATURDAY, JUNE 11TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 134.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	71	41	61.6	46.6	53.6	2 above	Day-deg. 81	Day-deg. +25	Day-deg. 0	Day-deg. - 2	Day-deg. 544	Day-deg. + 88	Day-deg. 395	Day-deg. -224
	1. SCOTLAND, EAST	77	36	63.4	46.4	54.4	1 above	87	+17	0	- 1	646	+ 65	427	-222
	2. ENGLAND, N.E.	72	45	62.3	48.6	54.9	2 above	90	+16	0	- 1	673	+101	333	-216
	3. ENGLAND, EAST	75	44	66.3	49.6	57.3	2 above	107	+19	0	- 1	769	+ 36	410	-207
	4. MIDLAND COUNTIES	75	38	69.2	48.3	58.0	3 above	112	+22	0	- 1	800	+ 23	404	-215
	5. ENGLAND, SOUTH	79	45	66.4	52.1	58.7	3 above	117	+22	0	- 1	877	+ 60	234	-243
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	75	39	65.0	47.8	55.8	2 above	97	+20	0	- 1	724	+ 93	245	-217
	7. ENGLAND, N.W.	76	44	66.0	50.1	57.5	3 above	109	+27	0	- 1	755	+ 99	215	-244
	8. ENGLAND, S.W.	78	42	66.5	50.0	57.7	2 above	110	+21	0	0	875*	+ 73	205	-156
	9. IRELAND, NORTH	74	39	63.9	48.1	55.5	1 above	95	+16	0	- 1	800	+ 88	227	-168
	10. IRELAND, SOUTH	73	42	63.7	48.9	55.8	0 (average)	97	+11	0	0	962	+105	165	-134
	-CHANNEL ISLANDS-	70	51	63.8	49.1	56.0	1 below	98	+ 4	0	0	1117	+190	55	- 98

DISTRICTS. (See p. 134.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week	No. of Rainy days.	Differ- ence from Mean.	Total fall.	Differ- ence from Mean.	Hours recorded.	Differ- ence from Mean.	Percent- age of possible Duration.	Differ- ence from Mean.	Hours recorded.	Differ- ence from Mean.	Percent- age of possible Duration.	Differ- ence from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	10ths of in. 4	10ths of in. 3 less	122	+17	Ins. 96.8	+ 7.0	49	+12	40	+10	554	+38	28	+ 2
	1. SCOTLAND, EAST	1	3	3 less	92	+ 9	11.3	- 0.7	44	+ 2	37	+ 1	576	+ 3	30	0
	2. ENGLAND, N.E.	2	2	3 less	83	+ 3	8.8	- 1.0	41	+ 7	35	+ 5	539	-13	29	- 1
	3. ENGLAND, EAST	3	11	7 more	78	+ 1	8.6	- 0.9	45	- 5	39	- 5	623	-44	32	- 2
	4. MIDLAND COUNTIES	2	1	4 less	77	+ 2	8.0	- 2.8	55	+12	47	+10	573	-13	30	- 1
	5. ENGLAND, SOUTH	4	6	1 more	75	+ 2	9.1	- 2.0	39	- 9	34	- 9	595	-56	32	- 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	3	4 less	105	+16	17.1	- 2.4	59	+11	50	+ 9	623	+52	34	+ 3
	7. ENGLAND, N.W.	1	1	5 less	88	+ 7	14.6	+ 2.2	61	+16	52	+14	661	+90	36	+ 5
	8. ENGLAND, S.W.	2	3	2 less	86	+ 4	13.1	- 1.9	65	+13	58	+12	720	0	38	0
	9. IRELAND, NORTH	4	8	2 more	111	+17	15.7	+ 1.3	42	0	36	0	610	+35	32	+ 2
	10. IRELAND, SOUTH	3	6	0 (average)	85	- 3	15.1	- 0.9	52	+ 7	45	+ 5	647	-12	34	0
	- CHANNEL ISLANDS-	3	8	4 more	95	+ 6	10.7	- 2.2	60	- 9	54	- 9	781	-49	40	- 3

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this week showed some improvement on that experienced over the United Kingdom during the few previous weeks. In the west and north, after being rainy on the 5th and 6th, it became generally fine and bright, while in the south and east, where it was mainly fair during the earlier part of the week, it became cloudy or dull with frequent rain, accompanied at some stations by thunder and lightning. The rainfall on Thursday was very heavy in the extreme east and south-east of England.

Temperature was rather above the mean in nearly all districts, but only just equal to it in Ireland S. and slightly below it in the Channel Islands. The highest of the maxima were recorded, as a rule, during the latter half of the week, and ranged from 79° in England S., 78° in England S.W., and 77° in Scotland E., to 73° in Ireland S. and 70° in the Channel Islands. The lowest of the minima were registered on irregular dates, and ranged from 38° in Scotland E. and 38° in the Midland Counties to 45° in England N.E. and S., and to 51° in the Channel Islands.

Rainfall was less than the mean in most districts, but was much in excess in England E. and considerably so in the Channel Islands, slightly so in Ireland N. and England S., and just equal

to the normal in Ireland S. The rainfall in the east and south-east of England was extremely variable, and was much heavier on the coast than at stations inland.

Bright Sunshine was much more prevalent in the western half of the Kingdom than in the eastern, but it was less than the mean only in England E. and S., and in the Channel Islands. The percentage of the possible duration ranged from 53 in England S.W., 54 in the Channel Islands, and 52 in England N.W. to 36 in Ireland N., 35 in England N.E., and 34 in England S.

Barometer and Wind. During the earlier part of the week a depression spread over our Islands from the westward causing light or moderate South-Westerly to Southerly and South-Easterly winds. By Wednesday this system had disappeared, and a band of high pressure extended from Scandinavia over all our northern and western coasts. This change produced light variable airs in the extreme north and west and North-Easterly winds in all other parts of the Kingdom, with fine, quiet weather in the west and north; but the conditions in the south and east were affected by a depression moving north-eastwards over the Continent, which caused the heavy rain in the extreme east and south-east noted above, and still more general heavy falls over the north of France and west of Germany.

II.—DATA from which the SUMMARY on page 133 has been calculated.

TRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	59	42	53.7	44.9	49.0	+ 0.5	49	0	1	0.02	- 0.44	*	*	*	*
	Stornoway	63	45	60.1	47.3	53.3	+ 2.6	79	0	2	0.31	- 0.33	71.8	+ 29.5	58	+ 23
	Wick	64	42	57.4	45.0	50.8	+ 0.1	62	0	1	0.20	- 0.18	*	*	*	*
	Laing	70	42	65.1	45.1	54.4	+ 3.0	87	0	2	1.27	+ 0.75	*	*	*	*
	Glencarron	67	45	64.3	47.4	55.3	+ 3.3	93	0	4	0.35	- 0.86	*	*	*	*
	Fort Augustus	70	44	63.6	48.0	55.3	+ 2.5	93	0	1	0.15	- 0.30	43.3	+ 13.8	36	+ 12
	Fort William	71	41	66.7	48.6	57.0	+ 3.5	105	0	1	0.40	- 0.47	53.6	+ 13.3	44	+ 11
1. SCOTLAND, E.	Nairn	66	41	62.6	47.3	54.4	+ 1.2	87	0	2	0.03	- 0.39	*	*	*	*
	Aberdeen	66	44	60.6	46.4	53.0	+ 0.3	77	0	1	0.32	- 0.14	50.1	+ 4.3	41	+ 3
	Braemar	67	36	63.4	43.7	52.9	+ 2.0	76	0	1	0.28	- 0.22	47.3†	+ 4.5†	39†	+ 2†
	Ochertyre	77	42	67.9	46.3	56.4	+ 2.1	101	0	1	0.44	- 0.20	*	*	*	*
	Leith	71	46	64.1	49.1	56.1	+ 1.5	99	0	1	0.19	- 0.27	*	*	*	*
	Marchmont	69	43	62.0	45.7	53.3	+ 0.8	79	0	2	0.24	- 0.36	40.0	- 2.9	33	- 3
2. ENGLAND, N.E.	Alnwick Castle	66	45	61.5	46.8	53.6	+ 2.3	81	0	3	0.26	- 0.24	*	*	*	*
	Durham	72	45	65.9	47.7	56.2	+ 2.1	99	0	2	0.30	- 0.20	42.7	+ 2.5	36	+ 2
	Shields	66	46	58.1	48.4	52.9	+ 0.2	76	0	1	0.35	- 0.06	*	*	*	*
	Scarborough	69	47	61.0	48.8	54.5	+ 0.7	88	0	1	0.21	- 0.28	44.8	?	38	?
	York	72	48	68.7	48.6	58.0	+ 2.9	112	0	1	0.04	- 0.48	49.3	+ 6.3	42	+ 5
	Spurn Head	64	49	58.4	51.0	54.4	+ 0.5	87	0	2	0.12	- 0.30	*	*	*	*
3. ENGLAND, E.	Hillington	75	44	67.2	49.6	57.8	+ 2.4	111	0	3	1.21	+ 0.69	39.9	- 8.1	34	- 8
	Yarmouth	63	50	60.4	52.0	55.9	+ 1.1	97	0	3	1.75	+ 1.29	*	*	*	*
	Gedeston	72	47	66.4	49.9	57.6	+ 2.4	109	0	2	1.67	+ 1.25	44.8	- 6.3	39	- 7
	Cambridge	75	44	66.6	48.3	58.2	+ 1.6	113	0	4	0.83	+ 0.32	46.7	- 0.8	41	0
	Rothamsted	69	45	67.7	48.0	57.2	+ 1.6	106	0	4	0.25	- 0.24	40.9	- 4.7	36	- 5
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	75	46	71.3	48.0	58.8	+ 3.0	118	0	1	0.05	- 0.48	*	*	*	*
	Loughborough	72	44	70.7	48.7	58.9	+ 2.0	118	0	2	0.12	- 0.40	*	*	*	*
	Stamford (Duddington)	73	44	69.0	48.1	57.8	+ 1.7	111	0	1	0.07	- 0.43	*	*	*	*
	Cheadle	71	46	67.5	50.3	58.3	+ 4.3	114	0	2	0.06	- 0.59	*	*	*	*
	Shirley (near Solihull)	72	44	68.5	48.2	57.6	+ 1.8	109	0	2	0.15	?	*	*	*	*
	Churchstoke	74	38	69.0	43.8	55.5	+ 1.3	95	0	2	0.09	- 0.46	62.0	+ 17.8	53	+ 14
	Hereford															
	Cirencester	71	44	67.9	48.4	57.5	+ 2.8	109	0	2	0.19	- 0.36	58.7	+ 12.7	51	+ 10
	Oxford	73	48	69.4	50.6	59.4	+ 3.1	122	0	3	0.15	- 0.38	51.3	+ 5.7	45	+ 4
5. ENGLAND, S.	London	77	49	70.4	51.7	60.4	+ 2.7	129	0	4	0.32	- 0.16	35.7†	- 6.5†	31†	- 7†
	North Foreland	68	50	61.9	52.4	56.8	+ 1.8	104	0	3	1.57	?	*	*	*	*
	Cranley	73	45	66.2	49.6	57.3	+ 5.4	107	0	7	0.52	?	*	*	*	*
	Dungeness	69	51	64.1	53.9	58.6	+ 2.7	116	0	3	0.54	+ 0.13	*	*	*	*
	Hastings (St. Leonards)	70	50	66.3	52.7	59.0	+ 3.2	119	0	4	0.74	+ 0.32	41.7	- 13.3	37	- 12
	Southampton	79	50	69.0	52.3	60.1	+ 2.7	127	0	4	0.44	- 0.01	51.2	+ 1.1	45	0
	Hurst Castle	73	50	66.0	53.3	59.2	+ 2.5	120	0	3	0.43	- 0.02	*	*	*	*
	Shaftesbury	72	47	67.2	50.5	58.3	+ 3.9	114	0	3	0.16	- 0.30	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	75	43	65.6	49.1	56.8	+ 3.1	104	0	2	0.52	- 0.44	*	*	*	*
	Glasgow	68	47	64.5	49.0	56.2	+ 2.6	99	0	2	0.16	- 0.52	43.8	+ 5.4	37	+ 5
	Ardrossan	70	47	63.9	48.9	55.9	+ 1.4	97	0	2	0.40	- 0.18	*	*	*	*
	Glenlee	74	39	66.6	44.7	54.9	+ 1.4	90	0	2	0.23	- 0.57	*	*	*	*
	Gilcrux (Cumberland)	72	46	65.9	48.8	56.8	+ 2.8	104	0	2	0.15	?	66.1	?	56	?
	Douglas (Isle of Man)	72	42	63.7	46.2	54.3	+ 0.6	86	0	2	0.54	0.00	67.4	+ 15.7	58	+ 13
7. ENGLAND, N.W.	Stonyhurst	71	46	66.3	49.9	57.5	+ 2.9	109	0	1	0.08	- 0.72	62.8	+ 17.7	54	+ 15
	Blackpool	76	46	67.9	49.0	57.8	+ 3.2	111	0	1	0.13	- 0.38	59.3	+ 14.1	51	+ 12
	Manchester (Prestwich)	72	44	68.2	49.6	58.3	+ 3.5	114	0	1	0.06	- 0.64	53.6	?	46	?
	Liverpool Obsy. (Bidston)	72	49	65.3	51.3	57.8	+ 2.6	111	0	0	—	- 0.52	*	*	*	*
	Llandudno	70	48	65.3	50.7	57.5	+ 1.8	109	0	2	0.07	- 0.41	61.9	+ 16.9	53	+ 14
	Holyhead	70	48	63.0	50.0	56.1	+ 1.2	99	0	2	0.19	- 0.29	*	*	*	*
8. ENGLAND, S.W.	Llandoverly	78	42	71.1	45.3	57.3	+ 1.9	107	0	2	0.30	- 0.40	*	*	*	*
	Pembroke	68	50	60.4	51.6	55.7	+ 1.1	96	0	1	0.38	- 0.11	77.3	+ 24.5	68	+ 22
	Clifton	75	48	69.2	51.8	59.9	+ 4.5	125	0	2	0.25	- 0.30	*	*	*	*
	Arlington (N. Devon)	74	43	67.1	47.9	56.8	+ 3.1	104	0	1	0.15	- 0.60	*	*	*	*
	Cullompton	75	43	69.7	48.9	58.6	+ 2.5	116	0	1	0.37	- 0.12	48.9	+ 1.9	43	+ 1
	Falmouth	71	47	63.7	51.0	56.9	+ 1.2	104	0	2	0.47	- 0.08	69.1	+ 15.6	62	+ 14
	Plymouth	75	47	66.4	51.2	58.3	+ 0.7	114	0	2	0.55	+ 0.07	60.9	+ 11.9	54	+ 10
	Prawle Point	72	49	64.3	52.4	57.9	+ 3.1	111	0	3	0.26	- 0.16	*	*	*	*
9. IRELAND N.	Malin Head	64	46	60.7	50.0	55.0	+ 1.5	91	0	3	0.42	?	*	*	*	*
	Londonderry	74	43	67.0	48.0	56.8	+ 1.3	104	0	5	0.73	+ 0.12	*	*	*	*
	Edenfel (Omagh)	73	41	65.1	48.3	56.1	+ 3.2	99	0	3	1.08	+ 0.48	*	*	*	*
	Belmullet	68	46	61.3	48.7	54.6	- 0.2	88	0	4	0.12	- 0.59	*	*	*	*
	Markree Castle	71	39	63.5	46.2	54.3	+ 0.4	86	0	5	1.08	+ 0.39	42.6	+ 1.1	36	0
	Armagh	69	45	65.3	47.5	55.8	+ 1.6	97	0	5	0.58	+ 0.08	41.1	- 0.8	35	- 1
	Donaghadee	71	45	62.9	49.6	55.8	+ 1.3	97	0	2	0.90	+ 0.37	*	*	*	*
	Edgeworthstown	74	41	65.6	46.6	55.4	+ 1.2	94	0	2	1.50	+ 0.82	*	*	*	*
10. IRELAND, S.	Dublin	71	48	65.5	50.9	57.7	+ 1.5	110	0	2	0.55	+ 0.07	54.6	+ 7.5	47	+ 6
	Parsonstown	73	44	65.7	47.6	56.0	+ 1.3	98	0	3	0.61	+ 0.03	43.0	+ 2.2	37	+ 2
	Kilkenny	72	43	65.3	48.6	56.4	+ 1.3	101	0	3	0.78	+ 0.27	*	*	*	*
	Roche's Point	64	49	60.0	50.9	55.1	- 1.2	92	0	2	0.93	+ 0.19	*	*	*	*
	Valencia	64	45	60.7	50.0	55.0	- 0.7	91	0	3	0.61	- 0.09	59.4	+ 11.4	52	+ 9
	Killarney	72	42	64.3	46.8	54.9	0.0	90	0	3	0.60	?	*	*	*	*
	Foynes	72	43	64.3	47.6	55.4	+ 0.3	94	0	3	0.19	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	51	61.6	53.1	57.1	+ 0.9	106	0	2	0.58	+ 0.14	71.8	?	64	?
	Jersey	70	53	66.0	45.0	54.8	- 2.6	90	0	4	1.05	+ 0.59	48.5	- 9.3	44	- 8

Stations marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

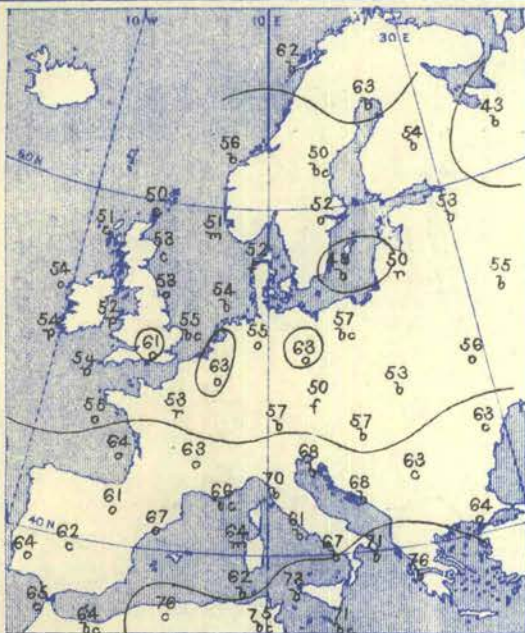
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 5th June.

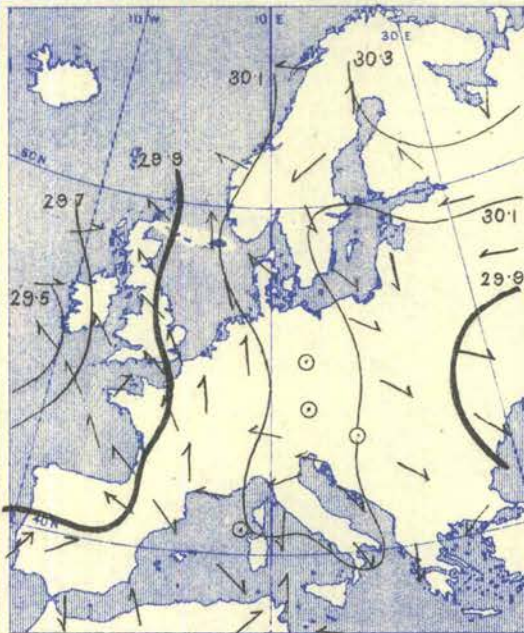
Temperature and Weather.

8 a.m.

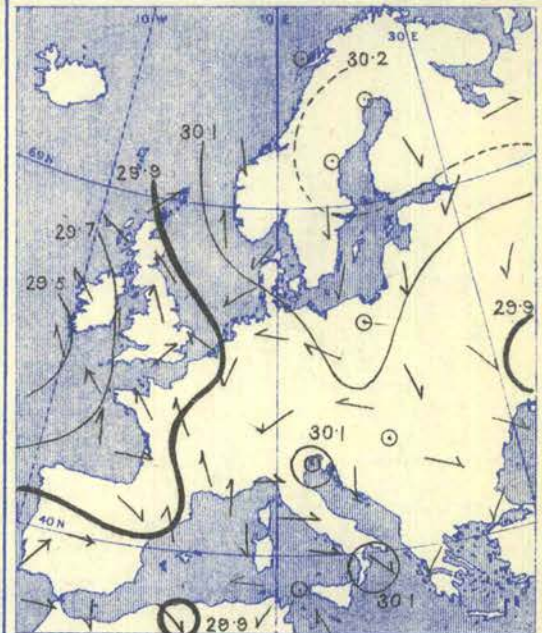


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over northern, central, and south-eastern Europe, as well as the extreme south-eastern counties of England; dull and unsettled over all the western parts of our Islands and France, with rain in several places, including Paris and Oxford—sky wearing an unsettled appearance even in London. Rain falling later all over Ireland, Wales, and the western and south-western parts of England, as well as in many parts of France—amounts largest 0.7 ins. to 0.4 ins. on our south-western coasts and over Brittany. Temperature risen over our Islands, France, and Germany. Morning readings highest, 76° to 75° on the southern side of the Mediterranean, 68° at Lesina and Trieste, and exceeding 60° in many parts of France and the east of England, and also in Finland and at Bodö. Lowest, 43° at Archangel, 50° at Sumburgh Head, 51° at Stornoway, 53° at Aberdeen, Shields, and Paris. Rising later to 70° at Loughborough and Paris, 75° in London and at Berlin, 76° at Lyons, 77° at Leghorn, 84° at Malta, 88° at Algiers, and 97° at Aumale.

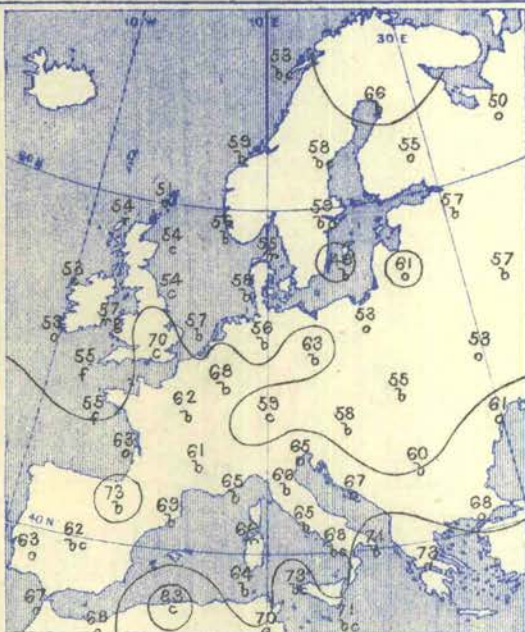
Wind light and very variable over the greater part of Continental Europe, but chiefly Easterly over the more northern countries; South-Westerly over Spain; Southerly and South-Easterly over France and the British Islands, and blowing with moderate strength in several places. Freshening somewhat over the western parts of our Islands later, and veering to South and South-West over the south-eastern counties of England.

Barometer at 8.0 a.m. highest, 30.3 ins. and more to 30.2 ins. over the most northern countries, and 30.1 ins. and more to 30.0 ins. in a broad band stretching southwards right across Scandinavia and central Europe to Italy and the eastern parts of the Mediterranean. Lowest, (1) below 29.6 ins. over the south-west of Ireland, and below 29.8 ins. at all our western stations and over the Bay of Biscay; (2) below 29.8 ins. over the south of Russia. Shallow local disturbances over western Europe. Falling a little and unsteadily over our Islands later, as well as over southern and central Europe.

Monday, 6th June.

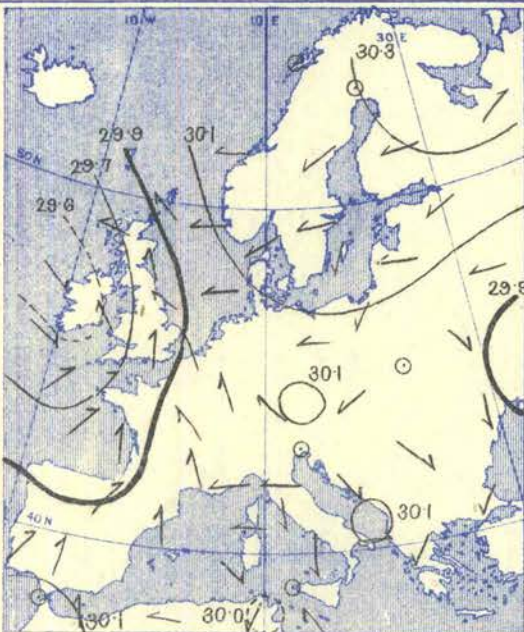
Temperature and Weather.

8 a.m.

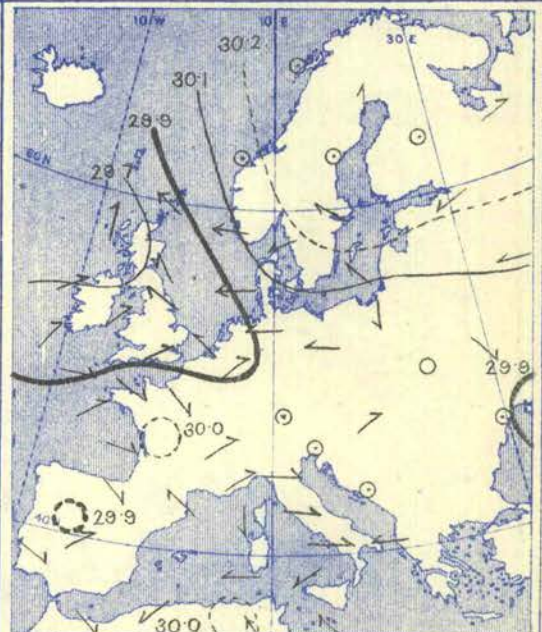


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine and bright over northern and many parts of southern Europe, but dull, close and changeable over the British Islands, with rain at many of the western and southern stations. Thunderstorms occurring later over many parts of England and the Netherlands, rain at the Scotch and Irish stations, and showers in several parts of France and south Germany.

Temperature in morning highest, (1) 83° at Algiers, 74° at Erindisi, 73° at Palermo and Biarritz, and 70° locally in London; (2) 66° at Uleaborg, 61° at Riga and 59° at Nairn. Lowest, 51° at Sumburgh Head, 52° at Wick and Douglas, 53° at Belmullet, and 54° at Stornoway, Aberdeen and Shields. Changing very fitfully over our Islands later—the maxima recorded being 71° at York and in London, 79° at Berlin, 80° at Paris, and 82° at Lyons, Rome and Palermo.

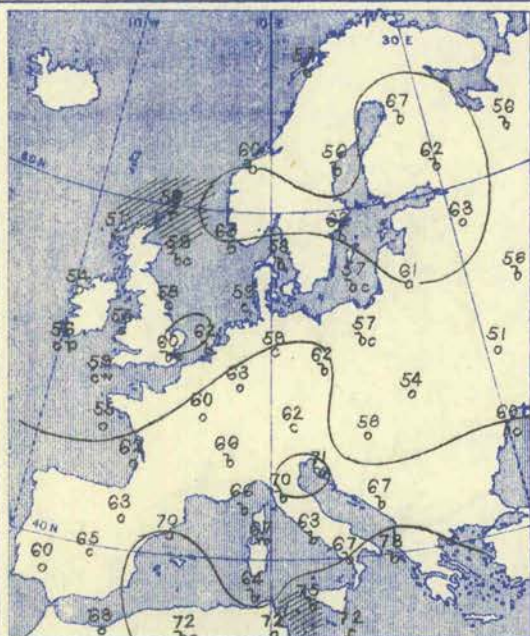
Wind (1) Southerly to South-Easterly over France, Great Britain and the Irish Sea, but North-Westerly in the south of Ireland; (2) North-Easterly to Easterly over the Baltic and northern Europe, light and extremely variable over central and south-eastern Europe and the Mediterranean. Shifting to South-West and North-West over England and France later, continuing South-Easterly in Scotland.

Barometer highest, 30.3 ins. and more to 30.1 ins. over northern Europe and the Baltic, and exceeding 30.0 ins. all over central and south-eastern Europe and the Mediterranean. Lowest, below 29.6 ins. in a complex depression over Ireland and the adjacent parts of the Atlantic. Some very shallow local disturbances over France and the south-east of England. Rising decidedly over Ireland, England and France later, fallen in Scotland and Norway.

Tuesday, 7th June.

Temperature and Weather.

8 a.m.

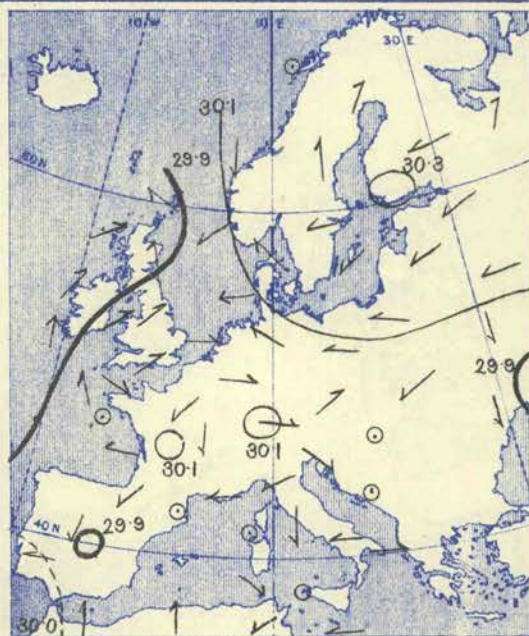


Weather in morning fine and bright both over the most northern countries of Europe, and over the Mediterranean and its shores; fine also over Great Britain, but cloudy in Ireland and showery both at Valencia and Roche's Point. Rain falling later in Ireland, the Channel Islands and the west of France (1.4 ins. at Biarritz) and considerable quantities over west Germany and the extreme east of France; thunderstorms at the southern French stations.

Temperature in morning highest, 78° at Brindisi, 75° at Palermo, 72° at Cape Sicié and much above 60° over the southern half of France generally, and the west of Germany as well as over Finland and the west of Norway; lower over our Islands. Lowest, 50° at Sumburgh Head, 51° at Stornoway, 52° at Wick and below 60° over the northern and western parts of our Islands generally, as well as over Lapland and the north of Russia. Rising later to between 70° and 73° in many parts of Great Britain, to 73° at Paris, 77° at Berlin, 81° at Lyons, 86° at Florence, Palermo and Tunis, and 99° at Annale and Laghouat.

Barometer and Wind.

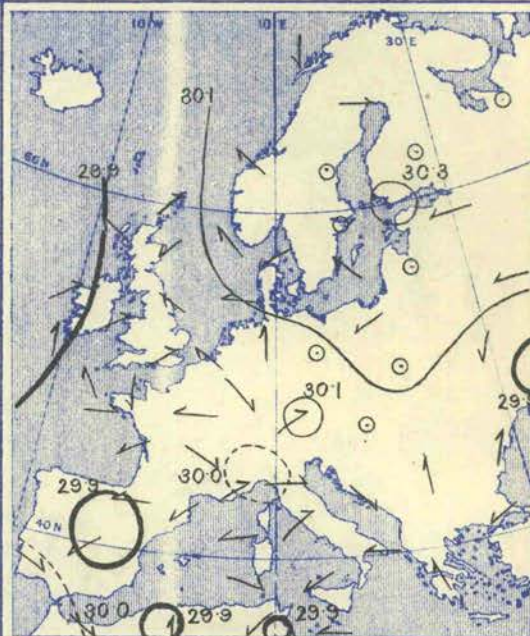
8 a.m.



Wind moderate from the Southward (South-East to South-West) over the western parts of our Islands, very light and variable elsewhere, but mainly Easterly over the Baltic and Northerly in the south of Russia. No very decided change later.

Barometer highest, 30.3 ins. to 30.1 ins. over northern Europe and exceeding 30.0 ins. over the eastern and central countries as a whole. Lowest, (1) 29.32 ins. in the west of Ireland, (apparently lower over the Atlantic) and below 30.0 ins. in a "hollow" over the Netherlands and southern parts of the North Sea; (2) below 29.9 ins. over the south-east of Russia. Rising slightly off our western coasts later.

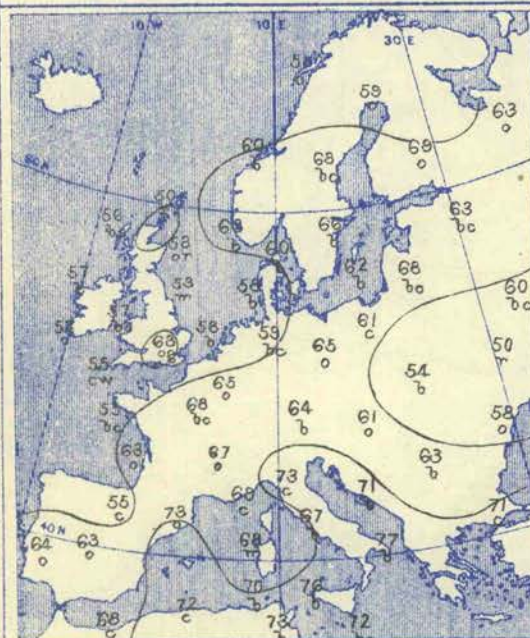
6 p.m.



Wednesday, 8th June.

Temperature and Weather.

8 a.m.

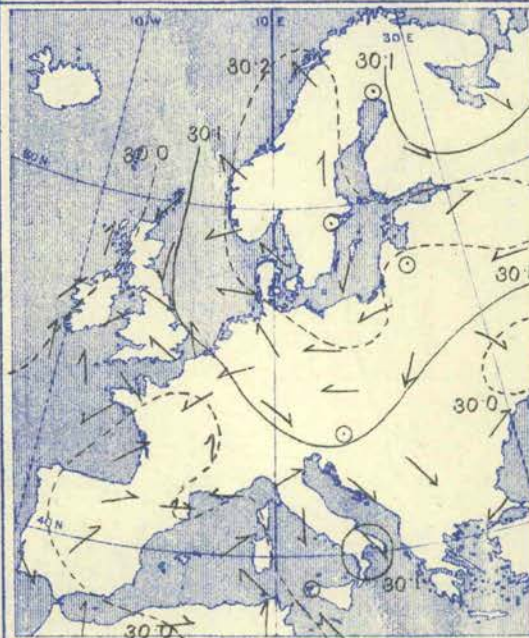


Weather in morning fine and bright over the southern half of Scandinavia and the Baltic, as well as over south-eastern Europe, Italy, Sicily, and Sardinia; fair over the western and north-western parts of the British Islands, gloomy over France and the south-east of England, with rain in several places. Rain falling later in all the last named regions—very heavily at Le Mans, rather so at Cape Gris Nez, but weather continuing very fine in the western and northern districts generally.

Temperature in morning fallen over France. Morning readings highest, 77° at Brindisi, 76° at Palermo, and exceeding 70° at many of the Mediterranean stations and at Constantinople; exceeding 60° over central and northern Europe as a whole. Lowest, (1) 48° at Wick, 50° at Nairn, 55° at Malin Head; (2) 50° at Kiev, 56° at Kharkov, 54° at Lemberg. Rising later to between 72° and 75° over the Midland counties of England, and touching 73° at Paris, 75° at Lyons and at Hernösand, 77° at Berlin, and 79° at Fanö; 85° to 88° over Italy, and 90° at Tunis.

Barometer and Wind.

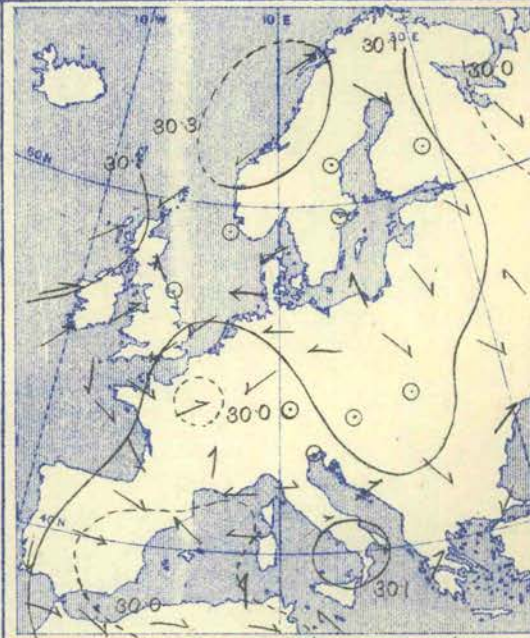
8 a.m.



Wind light and very variable over Europe generally—anticyclonic at the Scandinavian stations, Southerly over Ireland and the west of Scotland. No decided change later.

Barometer highest, (1) 30.2 ins. and more over Scandinavia and the Baltic Provinces, and exceeding 30.1 ins. over the North Sea and Germany; (2) 30.1 ins. at Lisbon. Lowest, below 30.0 ins. (1) over Asia Minor, (2) over central France, the north-east of Spain, and the western half of the Mediterranean, (3) over north-western parts of Ireland and the west of Scotland. Rising at all our western and northern stations later; falling over France.

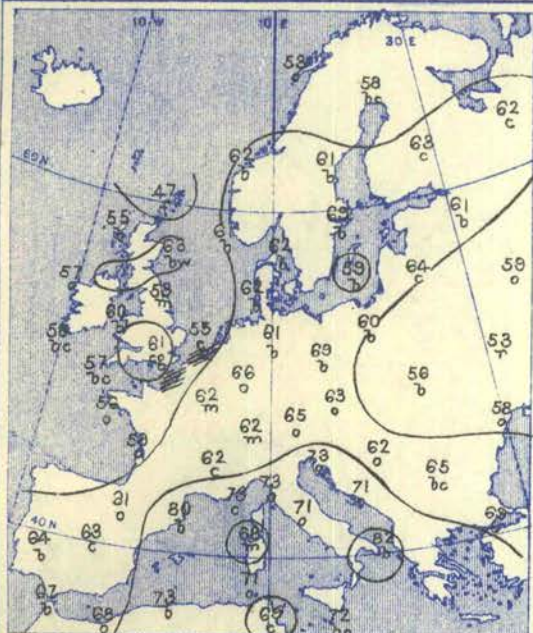
6 p.m.



Thursday, 9th June.

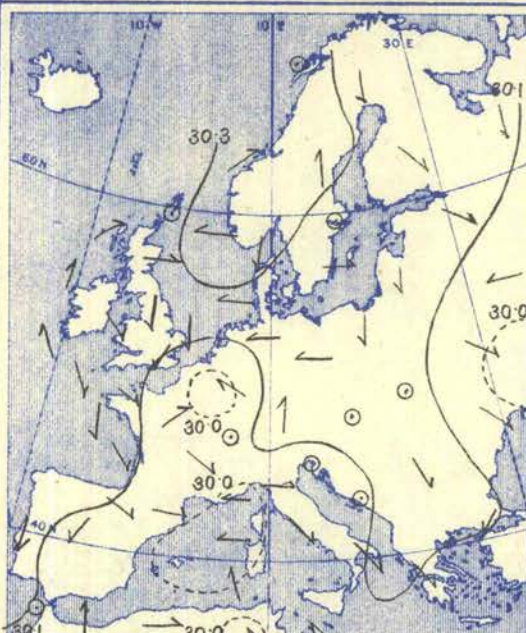
Temperature and Weather.

8 a.m.

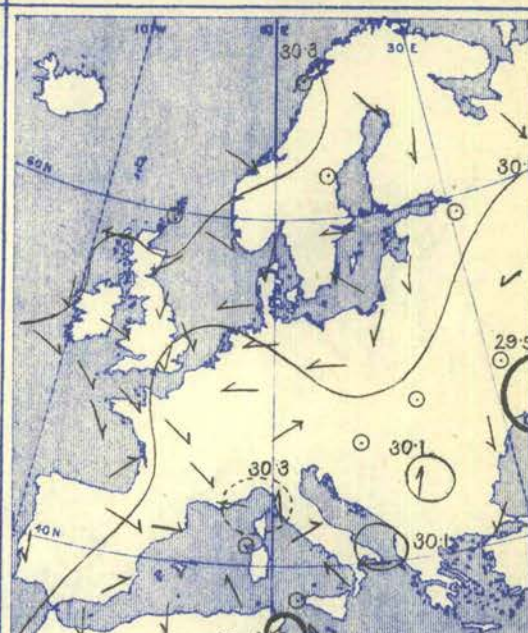


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine and bright over the Baltic, Scandinavia, nearly the whole of our Islands and many parts of central Europe, dull and rainy, however, over France, the Netherlands and the south-east of England. Heavy rains falling later over our extreme south-eastern counties and at Cape Gris Nez, as well as in the west and south-west of Germany, but weather continuing fine and dry over Scandinavia, Scotland, Ireland and the west of England.

Temperature risen in Norway, Scotland and the north of Ireland, and in the north-west of Germany, fallen over the south-east of England. Morning readings highest, 82° at Brindisi, 78° at Patras, Algiers and Nice; exceeding 60° over nearly the whole of Europe. Lowest, 47° at Sumburgh Head, 53° at La Hève, 55° at Stornoway and at Spurn Head, Yarmouth and Cape Gris Nez. Changing irregularly later; reaching 70° to 73° in some parts of our Islands and Norway, 73° at Brussels, 77° at Berlin, 81° at Nice, and 86° at Brindisi and Tunis, but not exceeding 68° in London and 56° at Spurn Head and Shields.

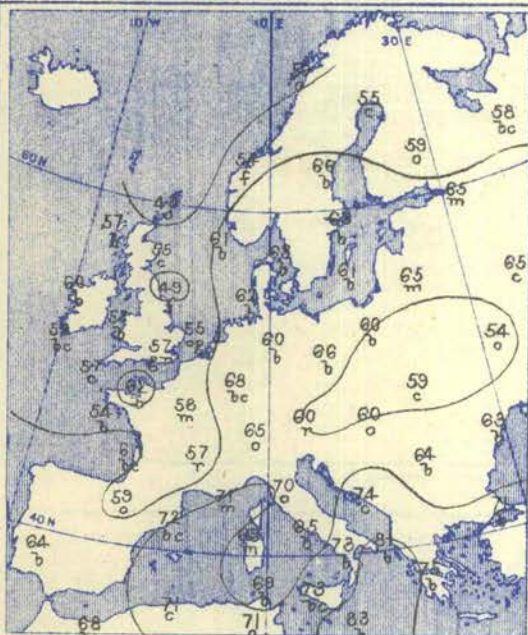
Wind very light and variable over Continental Europe and also over Scotland and Ireland, but Northerly over England and blowing briskly over our south-eastern counties, Southerly or South-Easterly over western Germany and Easterly on the Dutch coast. A separate cyclonic circulation of very light winds prevailing over the northern parts of the Mediterranean.

Barometer highest, 30.3 ins. and more over Scandinavia, and exceeding 30.2 ins. over the Baltic as well as over the northern and western parts of the British Islands. Lowest, below 30.0 ins. in three shallow depressions, one over the south of Russia, another over the northern half of the Mediterranean and the third over Belgium and the north-east of France. Falling over the Netherlands later, rising slightly in the west and north of our Islands.

Friday, 10th June.

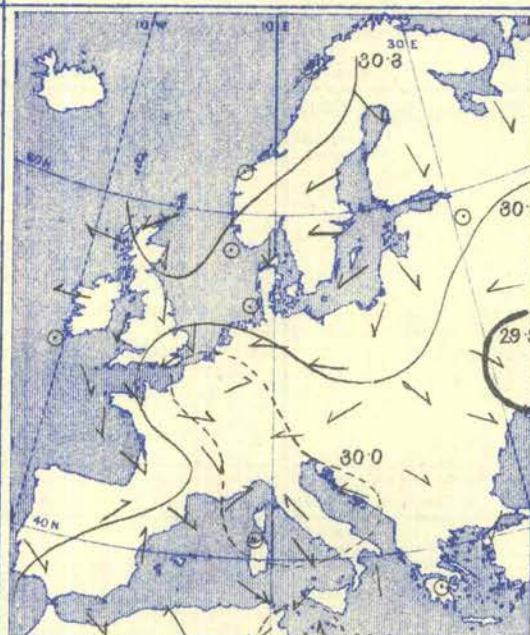
Temperature and Weather.

8 a.m.

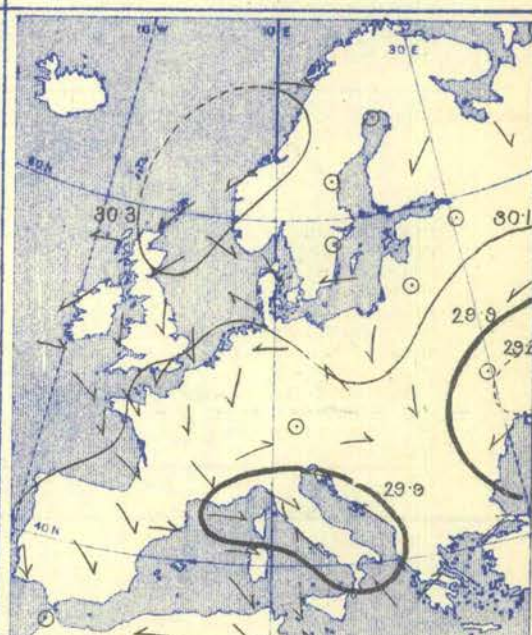


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the western and northern parts of our Islands, almost the whole of Scandinavia and many parts of southern, south-western and central Europe; but dull, foggy and rainy over the north-east of France, western Germany, the Netherlands and south-eastern parts of England. Rain falling later (but not in large quantity) over the last named regions, considerable fog experienced on our north-east coasts, thunder at Holyhead, but weather on the whole improving considerably.

Temperature in morning very irregularly distributed. Highest, (1) 83° at Malta, 81° at Brindisi, and above 70° at many of the Mediterranean and Adriatic stations; (2) 69° at Stockholm, 67° at Memel and much above 60° at the Swedish stations and on the shores of the Gulf of Finland. Lowest, 49° at Sumburgh Head and Shields, 50° at Wick and at Bodø, and below 60° over Ireland and 52° to 57° over the east and south-east of England. Rising later to 70° and more in several parts of Scandinavia and the British Islands, and to 82° at Fanø and Berlin, but not touching 60° in the north-east of England and reaching only 60° at Paris and 62° in London.

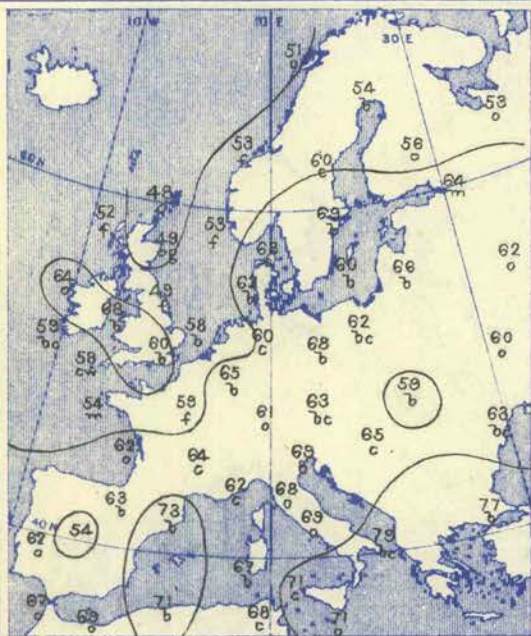
Wind very light generally, (1) chiefly Northerly to Easterly over Scandinavia and the British Islands, Northerly to North-Westerly in the west and south of France, but Easterly over Germany, South-Easterly at Münster, South-Westerly at Brussels; (2) calm over the southern half of Ireland and at Pembroke. No decided change later.

Barometer highest, 30.3 ins. and more to 30.2 ins. over Ireland, Scotland, the Baltic, Finland and Scandinavia. Lowest, (1) about 29.8 ins. to 29.9 ins. in a depression over the south of Russia; (2) below 30.0 ins. over the north-east and east of France, the west of Germany and the north of Italy, as well as over Tunis and Malta. Rising later at our south-eastern stations and over the Netherlands, falling slightly in Ireland and the north west of Scotland.

Saturday, 11th June.

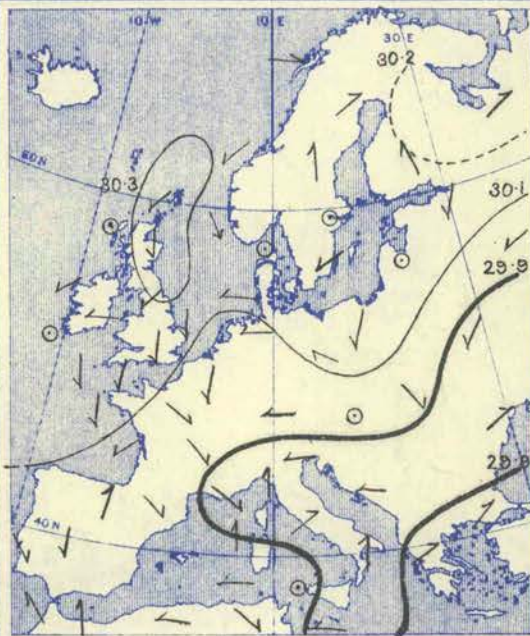
Temperature and Weather.

8 a.m.

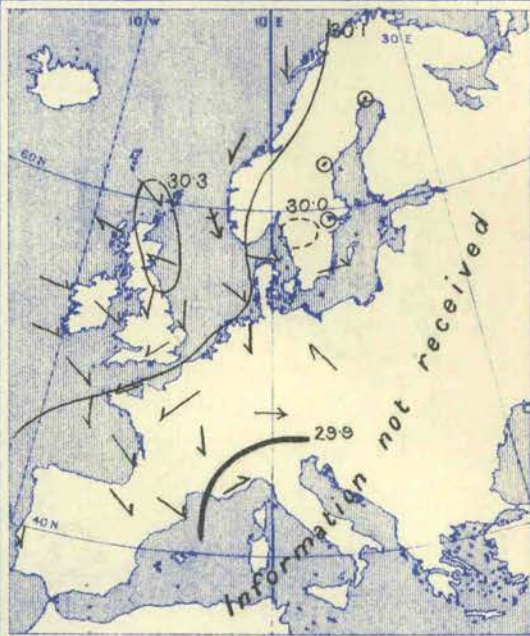


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still fine over Ireland, Scotland, many parts of Sweden, the Baltic, Russia, Germany, Holland, and the eastern and southern parts of our Islands; cloudy as a whole elsewhere; fog prevalent in the west of Scotland. Rain prevalent later, very locally, in some parts of Scandinavia, Germany, and France; thunder reported at Valencia. Very fine over England all day.

Temperature in morning highest, 79° at Brindisi, 77° at Constantinople and Athens, 71° at Malta, Palermo and Algiers; 68° at Wiesbaden and Berlin, as well as at Holyhead, 67° at Faerder, 66° at Riga, 65° at Helsingfors. Lowest, only 48° to 49° over the north-eastern and eastern parts of Great Britain, 50° at Spurn Head, 52° at Stornoway and 51° at Bodø; 59° at Paris and Belfort. Rising later to 65° at York, 77° in London and Brussels, 79° at Wiesbaden and at Perpignan; but readings not at all uniform over large areas. Succeeding night much colder over England.

Wind light generally—North-Easterly to Northerly over our Islands (moderate on our east coasts); very variable over Scandinavia, North-Easterly over Germany, Northerly to North-Westerly over France, varying greatly on the Mediterranean shores. Becoming very variable in Ireland later.

Barometer highest, 30.3 ins. and more over the north-east of Scotland and exceeding 30.2 ins. over the northern parts of our Islands and the west of Norway. Lowest, below 29.9 ins. over the Riviera, Italy, the whole of south-eastern Europe and the south of Russia. The depression over Belgium and the north-east of France almost entirely filled up. Rising over our Islands all day but beginning to fall over Sweden and Norway.

GENERAL NOTES.

The weather experienced over Europe during the past week has been changing slowly, but the general character of the two spells which have prevailed has been clearly marked, as far as the western countries are concerned.

At first the barometer was highest, (30.3 ins. to 30.2 ins.) over the extreme northern countries and rather high (30.1 ins. and more) in a band extending thence in a southerly direction over Scandinavia and central Europe to Italy. In the east a shallow depression (29.8 ins. and less) was found over the southern parts of Russia and another (29.6 ins. and less) was approaching Ireland from the south-westward. The latter caused rain very generally, but not in large quantities over the northern and western parts of the United Kingdom, where the wind was South-Easterly to Westerly; some secondary disturbances connected with this system caused thunder showers in various parts of England on the following day or two.

The depression now disappeared and the barometer rose on our western and northern coasts, and the pressure became still more generally high over northern Europe. A new series of disturbances then spread gradually over France, western Germany, the Netherlands and our south-eastern counties from the south-westward causing much rain in those districts, with thunder and lightning in many places, while over the western and northern parts of the British Islands the weather became very fine and bright. This set of disturbances was dying out at the end of the week. Over southern Russia the depression referred to at the beginning of the week continued in force—with very little movement—till near its close.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 134.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	41.6	?	33	?	WESTBOURNE (Emsworth)	38.5*	-12.5	34*	-13
STRATHPEFFER SPA	33.0	-7.5	27	-6	WATERGATE (Emsworth)	37.0	?	33	?
EDINBURGH	39.6	+1.7	33	+1	BRIGHTON	33.8	-17.0	30	-15
MORPETH	26.5	?	21	?	EASTBOURNE	38.4	-13.2	34	-12
NEWCASTLE-ON-TYNE	30.0	?	25	?	VENTNOR HOSPITAL	41.1	?	36	?
OSWALDKIRK (Yorkshire)	52.8	+13.2	45	+11	SOUTHPORT	64.9	?	55	?
SHEFFIELD	52.2	?	45	?	COLWYN BAY				
WORKSOP	53.6	+14.1	46	+12	TENBY	71.8*	+19.3	63*	+17
THURCASTON (Leicestershire)	51.3	+9.8	44	+7	NEWQUAY	72.0	+20.3	64	+18
HOLLESLEY BAY	52.7	?	46	?	TORQUAY	57.0*	+3.2	51*	+3
PLUMSTEAD COMMON	31.8	?	28	?	GUERNSEY	51.3*	-8.8	46*	-9
MARGATE	40.4	-4.4	36	-4					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature.					Rainfall.			Bright Sunshine.		
		(In Degrees Fahrenheit.)										
		Highest observed.	Lowest observed.	Averages for the week.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees).	Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.
				Of Highest each day.	Of Lowest each day.	For whole of each day.						
Week ending Jan. 8th, 1898	Hereford	54	30	47.4	36.3	42.1	+4.1	25	16	0	-0.52	—
" " " " "	Cirencester	52	26	47.4	36.6	42.2	+5.2	24	15	0.35	-0.29	11.0
" " " " "	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	12.5
" " " " "	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	10.2
" " " " "	Clifton	56	31	50.4	40.8	45.6	+5.4	30	3	6	+0.12	—
" " " " "	Edgeworthstown	55	30	50.0	36.3	43.3	+4.6	33	16	5	+0.03	—
" " " " "	Oswaldkirk	—	—	—	—	—	—	—	—	—	—	16.0
" " " " "	Newquay	—	—	—	—	—	—	—	—	—	—	12.1
" " " " "												18
												29
												24
												19
												21
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												7
												7

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.VOL. XV. No. 24.]
Third Series.

WEEK ENDING SATURDAY, JUNE 18TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 140.)		Temperature of the Air.													
		Observed during the Week.						Accumulated.							
		Highest.	Lowest.	Averages of			Above or below the Mean for the Week.	For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	73	35	61.7	46.5	53.6	1 above	Day-deg. 81	Day-deg. +18	Day-deg. 0	Day-deg. - 2	Day-deg. 625	Day-deg. +106	Day-deg. 395	Day-deg. -226
	1. SCOTLAND, EAST	76	35	63.6	46.1	54.2	0 (average)	85	+ 8	0	0	731	+ 73	427	-222
	2. ENGLAND, N.E.	77	36	59.8	46.2	52.5	3 below	74	- 8	0	0	747	+ 93	333	-216
	3. ENGLAND, EAST	76	42	60.5	47.6	53.6	3 below	81	-14	0	0	850	+ 22	410	-207
	4. MIDLAND COUNTIES	74	32	63.1	45.7	53.7	3 below	82	-14	0	0	882	+ 14	404	-215
5. ENGLAND, SOUTH	77	40	61.9	48.8	54.9	3 below	90	-12	0	0	967	+ 48	234	- 243	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	70	43	64.6	48.8	56.2	1 above	99	+16	0	0	823	+109	245	-217
	7. ENGLAND, N.W.	71	40	63.3	49.0	55.7	1 below	96	+ 6	0	0	851	+106	215	- 244
	8. ENGLAND, S.W.	76	35	64.2	48.9	56.0	1 below	98	+ 2	0	0	973	+ 75	205	-156
	9. IRELAND, NORTH	76	44	64.5	50.0	56.7	1 above	103	+18	0	0	903	+106	227	-168
	10. IRELAND, SOUTH	75	43	66.4	51.7	58.6	2 above	116	+24	0	0	1078	+129	165	-134
—CHANNEL ISLANDS.		66	45	61.3	51.6	56.1	2 below	99	- 7	0	0	1216	+133	55	- 93

DISTRICTS. (See p. 140.)		Rainfall.								Bright Sunshine.							
		For the Week.				From January 2nd, 1898.				For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.		No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
				10ths of in.	10ths of in.												
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	4	3 less	3 less	124	+15	27.2	+ 6.7	40	+ 8	33	+ 6	594	+47	29	+ 2
	1. SCOTLAND, EAST	1	1	4 less	4 less	93	+ 7	11.4	- 1.1	38	- 4	31	- 4	614	- 2	30	0
	2. ENGLAND, N.E.	1	less than ½	4 less	4 less	84	+ 2	8.8	- 1.4	27	-10	23	-10	566	-24	29	- 1
	3. ENGLAND, EAST	1	1	4 less	4 less	79	- 1	8.7	- 1.3	22	-24	19	-22	645	-68	31	- 4
	4. MIDLAND COUNTIES	1	less than ½	5 less	5 less	78	0	8.0	- 3.3	34	- 7	29	- 6	607	-20	30	- 1
5. ENGLAND, SOUTH	1	less than ½	4 less	4 less	76	+ 1	9.1	- 2.4	33	-16	29	-14	628	-72	32	- 4	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	4	3 less	3 less	107	+15	17.5	- 2.7	42	- 2	35	- 1	665	+50	34	+ 2
	7. ENGLAND, N.W.	1	3	3 less	3 less	89	+ 5	14.9	+ 1.9	43	- 3	37	- 3	704	+84	36	+ 5
	8. ENGLAND, S.W.	1	3	2 less	2 less	87	+ 3	13.4	- 2.1	63	+11	55	+ 9	783	+11	38	0
	9. IRELAND, NORTH	3	1	5 less	5 less	114	+16	15.8	+ 0.8	34	- 8	29	- 7	644	+27	32	+ 2
	10. IRELAND, SOUTH	2	1	5 less	5 less	87	- 4	15.2	- 1.4	49	+ 4	43	+ 4	696	- 9	34	- 1
— CHANNEL ISLANDS.		1	less than ½	4 less	4 less	96	+ 5	10.7	- 2.6	66	+ 2	59	+ 1	847	-47	42	- 1

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period varied considerably in different parts of the Kingdom. During the first few days it was very cold and dull in most parts of Great Britain, but fine and warm in Ireland. Towards the latter part of the week, however, the dense cloud canopy over England and Scotland disappeared, and conditions gradually became fine and warm. Scarcely any rain was experienced over the Kingdom as a whole, but some fell, accompanied by thunder and lightning, at a few western stations on Sunday, and towards the end of the week rain had set in in the north-west, and by Saturday slight falls had occurred in nearly all parts of the Kingdom. *Temperature* after being unusually low for the time of year over England, subsequently rose steadily, and by the end of the week became rather high. The mean values for the week, however, were below the normal in most districts, as much as 3° over the greater part of England. In Scotland E. the normal value was just equalled, but in Ireland and the north and west of Scotland the average daily value slightly exceeded the mean for the time of year. The highest of the maxima were recorded either on the 17th or 18th, and ranged from 77° in England S. and N.E., and 76° to 75° over Ireland to 70° in Scotland W. and to 66° in the Channel Islands. During the first three days of the week the maxima over the eastern half of England were nearly all below 60°, and at some stations scarcely exceeded 50°. The lowest of the minima, which were recorded,

as a rule, on the 15th, were as low as 32° in the Midland Counties, 35° in Scotland N. and E., and England S.W., and 36° in England N.E.; elsewhere they ranged from 40° in England S. and N.W. to 45° in the Channel Islands. A minimum thermometer placed on the grass at Loughborough recorded 29° on Wednesday morning.

Rainfall was less than the mean in all districts, the fall over Ireland and the greater part of England being extremely slight and in several places nil.

Bright Sunshine exceeded the mean in Scotland N., England S.W., Ireland S. and the Channel Islands, but was deficient elsewhere. The percentage of the possible duration ranged from 59 in the Channel Islands and 55 in England S.W. to 43 in Ireland S., 29 in Ireland N., England S. and the Midland Counties to 23 in England N.E., and to 19 in England E.

Barometer and Wind.—During the early days of the week an anticyclone extended from the northward over all but the southern and eastern parts of our Islands. After Tuesday, however, it commenced to move steadily southwards, and by the end of the period had reached the north of France, while a large depression had appeared off the north of Scotland. Northerly and North-easterly winds were prevalent during the greater part of the week, but towards its close they became westerly, at first in the north, and subsequently in all other parts of the Kingdom.

II.—DATA from which the SUMMARY on page 139 has been calculated.

TRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42° F.	Below 42° F.	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	55	41	51.9	44.0	47.7	- 2.0	40	0	0.93	+ 0.48	*	*	*	*
	Stornoway	67	43	60.9	47.4	53.7	+ 1.8	82	0	0.20	- 0.45	57.6	+14.8	46	+11
	Wick	62	42	58.3	46.1	51.8	0.0	69	0	0.16	- 0.28	*	*	*	*
	Lairg	73	35	66.2	44.2	54.4	+ 1.4	87	0	0.15	- 0.37	*	*	*	*
	Glencarron	67	42	65.9	47.1	55.9	+ 2.5	97	0	0.59	- 0.59	*	*	*	*
	Fort Augustus	68	41	63.3	47.5	54.8	+ 0.3	90	0	0.16	- 0.34	41.5	+10.7	34	+ 9
1. SCOTLAND, E.	Fort William	69	45	65.7	49.0	56.8	+ 2.4	104	0	0.65	- 0.25	52.1	+10.6	42	+ 8
	Nairn	68	38	62.6	45.6	53.5	- 1.1	81	0	0.03	- 0.37	*	*	*	*
	Aberdeen	69	43	59.4	46.3	52.4	- 1.4	73	0	0.13	- 0.28	31.3	-14.7	25	-13
	Braemar	69	35	65.6	44.2	54.2	+ 2.0	85	0	0.04	- 0.52	56.6†	+13.8†	46†	+10†
	Ochertyre	76	43	68.7	47.7	57.5	+ 2.1	109	0	0.03	- 0.58	*	*	*	*
	Leith	75	45	63.6	48.3	55.4	- 0.3	94	0	0.08	- 0.34	*	*	*	*
2. ENGLAND, N.E.	Marchmont	74	40	61.6	44.3	52.4	- 1.4	73	0	0.04	- 0.54	35.0	- 7.8	29	- 7
	Alnwick Castle	74	36	60.6	44.6	52.0	- 1.6	70	0	0.01	- 0.43	*	*	*	*
	Durham	77	36	62.8	45.4	53.5	- 2.0	81	0	—	- 0.45	34.3	- 5.7	29	- 5
	Shields	71	42	57.9	46.1	51.6	- 2.8	67	0	0.11	- 0.39	*	*	*	*
	Scarborough	73	43	57.1	46.5	51.4	- 4.0	66	0	—	- 0.47	22.1	?	19	?
	York	74	38	62.6	45.4	53.4	- 3.0	80	0	0.05	- 0.46	30.8	-11.2	26	- 9
3. ENGLAND, E.	Spurn Head	68	47	57.7	49.0	53.1	- 2.5	78	0	0.11	- 0.27	*	*	*	*
	Hillington	74	47	60.9	47.5	53.7	- 3.4	82	0	0.14	- 0.37	19.1	-27.9	16	-25
	Yarmouth	74	47	58.7	48.9	53.5	- 2.8	81	0	0.06	- 0.36	*	*	*	*
	Geldeston	76	47	59.5	48.3	53.5	- 3.0	81	0	0.07	- 0.43	18.2	-32.0	16	-28
	Cambridge	76	44	62.6	46.9	54.2	- 3.9	85	0	0.03	- 0.47	27.5	-18.7	24	-16
	Rothamsted	73	42	60.7	46.2	53.0	- 4.0	77	0	0.02	- 0.47	20.8	-18.5	23	-17
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	74	32	65.3	45.7	54.8	- 2.4	90	0	0.06	- 0.45	*	*	*	*
	Loughborough	74	32	63.7	45.9	54.2	- 4.1	85	0	0.02	- 0.48	*	*	*	*
	Stamford (Duddington)	73	37	61.4	46.1	53.2	- 4.2	78	0	0.03	- 0.42	*	*	*	*
	Cheadle	68	40	61.0	46.5	53.3	- 1.9	79	0	0.11	- 0.57	*	*	*	*
	Shirley (near Solihull)	70	32	62.2	45.3	53.2	- 3.9	78	0	0.08	?	*	*	*	*
	Churchstoke	72	35	66.1	42.4	53.5	- 1.9	81	0	0.01	- 0.51	47.7	+ 3.5	41	+ 2
5. ENGLAND, S.	Hereford	?	36	?	47.1	?	?	?	0	0.01	- 0.47	*	*	*	*
	Cloucester	73	39	63.1	45.4	53.6	- 2.5	81	0	0.03	- 0.49	42.5	- 3.1	37	- 3
	Oxford	74	38	62.3	46.7	54.0	- 4.1	84	0	—	- 0.50	36.1	- 9.2	31	- 9
	London	77	47	63.7	48.9	55.5	- 3.8	95	0	—	- 0.47	28.4†	-13.8†	25†	-12†
	North Foreland	74	49	58.4	49.6	53.7	- 2.7	82	0	0.10	?	*	*	*	*
	Cranley	74	40	61.8	47.5	54.1	- 4.3	85	0	0.01	?	*	*	*	*
6. SCOTLAND, W.	Dungeness	63	48	58.9	50.9	54.6	- 2.7	88	0	0.01	- 0.34	*	*	*	*
	Hastings (St. Leonards)	65	46	59.7	49.2	54.1	- 3.3	85	0	—	- 0.38	27.7	-26.4	24	-23
	Southampton	76	44	66.6	48.0	56.7	- 2.3	103	0	—	- 0.43	50.3	+ 0.5	44	0
	Hurst Castle	66	46	62.9	50.1	56.1	- 2.0	99	0	—	- 0.42	*	*	*	*
	Shaftesbury	72	41	63.0	46.4	54.1	- 1.8	85	0	0.03	- 0.49	*	*	*	*
	Laudale (Loch Sunart)	65	46	63.4	49.8	56.1	+ 1.3	99	0	1.00	0.00	*	*	*	*
7. ENGLAND, N.W.	Glasgow	70	46	66.4	49.1	57.2	+ 1.9	106	0	0.21	- 0.40	38.6	- 0.2	32	0
	Ardrossan	65	46	63.0	49.7	55.9	+ 0.5	97	0	0.11	- 0.44	*	*	*	*
	Glenlee	70	43	67.8	45.9	56.1	+ 1.7	99	0	0.62	- 0.11	*	*	*	*
	Gilcrux (Cumberland)	66	43	63.2	50.0	56.1	+ 0.6	99	0	0.24	?	39.3	?	33	?
	Douglas (Isle of Man)	67	43	63.6	48.5	55.5	+ 0.7	95	0	0.11	- 0.38	48.2	- 3.5	41	- 3
	Stonyhurst	67	42	62.9	48.2	55.0	- 1.0	91	0	0.82	+ 0.07	32.7	-12.4	28	-11
8. ENGLAND, S.W.	Blackpool	71	40	64.4	46.6	55.0	- 1.2	91	0	0.18	- 0.31	35.9	- 9.3	30	- 8
	Manchester (Prestwich)	69	41	64.0	46.8	54.8	- 1.4	90	0	0.22	- 0.46	31.2	?	26	?
	Liverpool Obsy. (Bidston)	67	46	63.0	50.3	56.2	- 0.6	99	0	0.10	- 0.38	*	*	*	*
	Llandudno	70	45	64.8	51.4	57.6	- 0.3	109	0	0.08	- 0.35	58.7	+13.5	51	+12
	Holyhead	64	47	60.7	50.7	55.4	- 1.1	94	0	0.09	- 0.36	*	*	*	*
	Llandovery	76	35	70.9	46.3	57.7	+ 1.3	110	0	0.13	- 0.54	*	*	*	*
9. IRELAND N.	Pembroke	63	47	60.4	51.9	55.9	+ 0.2	97	0	0.02	- 0.43	70.5	+16.4	61	+14
	Clifton	70	43	64.4	49.0	56.2	- 0.8	99	0	0.06	- 0.44	*	*	*	*
	Arlington (N. Devon)	71	38	65.6	46.6	55.5	+ 0.4	95	0	0.98	+ 0.28	*	*	*	*
	Cullompton	76	35	68.0	47.3	56.9	- 0.5	104	0	—	- 0.55	46.3	- 0.7	41	0
	Falmouth	68	44	63.7	51.3	57.1	+ 0.2	106	0	0.26	- 0.32	66.0	+12.2	58	+10
	Plymouth	67	43	62.3	49.6	55.5	- 3.2	95	0	1.22	+ 0.77	56.4	+ 7.4	50	+ 6
10. IRELAND, S.	Prawle Point	61	43	58.1	49.4	53.5	- 2.2	81	0	0.03	- 0.34	*	*	*	*
	Malin Head	66	48	60.9	51.9	56.1	+ 1.5	99	0	0.14	?	*	*	*	*
	Londonderry	76	46	65.8	50.4	57.6	+ 1.1	109	0	0.06	- 0.52	*	*	*	*
	Edenfel (Omagh)	70	44	65.0	49.6	56.8	+ 2.4	104	0	0.06	- 0.52	*	*	*	*
	Belmullet	66	50	62.9	52.9	57.6	+ 1.7	109	0	0.16	- 0.51	*	*	*	*
	Markree Castle	72	44	64.5	48.5	55.9	+ 1.5	97	0	0.16	- 0.52	41.6	+ 0.7	35	0
CHANNEL ISLANDS	Armagh	72	44	65.3	47.4	55.7	+ 0.3	96	0	0.18	- 0.34	25.8	-16.2	22	-13
	Donaghadee	70	44	63.7	49.4	56.1	+ 0.7	99	0	0.12	- 0.34	*	*	*	*
	Edgeworthstown	72	46	67.6	49.6	58.0	+ 1.9	112	0	0.21	- 0.41	*	*	*	*
	Dublin	75	47	66.1	52.1	58.6	+ 1.0	116	0	0.09	- 0.33	44.5	- 2.1	38	- 2
	Parsonstown	71	48	67.7	50.7	58.6	+ 2.4	116	0	0.06	- 0.48	41.2	+ 0.5	36	+ 1
	Kilkenny	74	43	68.4	50.1	58.6	+ 2.4	116	0	0.10	- 0.41	*	*	*	*
CHANNEL ISLANDS	Roche's Point	68	51	65.4	53.0	58.8	+ 1.3	118	0	0.06	- 0.36	*	*	*	*
	Valencia	70	48	64.3	51.7	57.6	+ 0.9	109	0	0.03	- 0.77	61.8	+13.9	54	+12
	Killarney	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Foynes	72	51	66.5	52.8	59.2	+ 3.1	120	0	0.44	?	*	*	*	*
	Scilly (St. Mary's)	66	50	62.0	53.1	57.2	+ 0.1	106	0	0.04	- 0.37	76.8	?	68	?
	Jersey	63	45	60.6	50.1	55.0	- 3.7	91	0	0.01	- 0.41	66.3	+ 8.6	59	+ 7

Stations marked *fl* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the New Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 12th June.

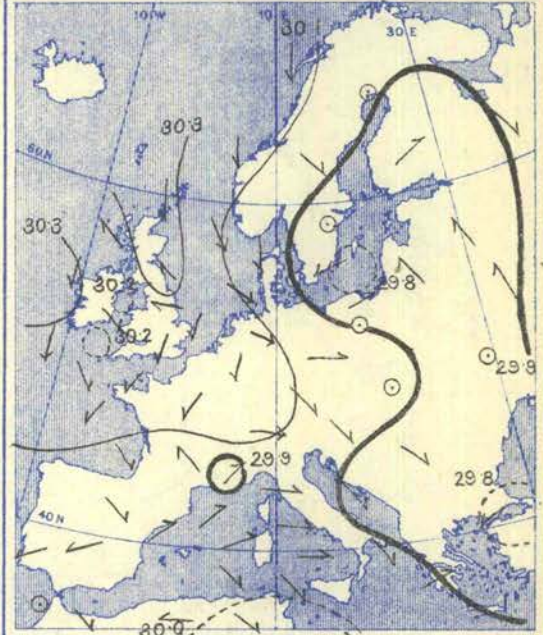
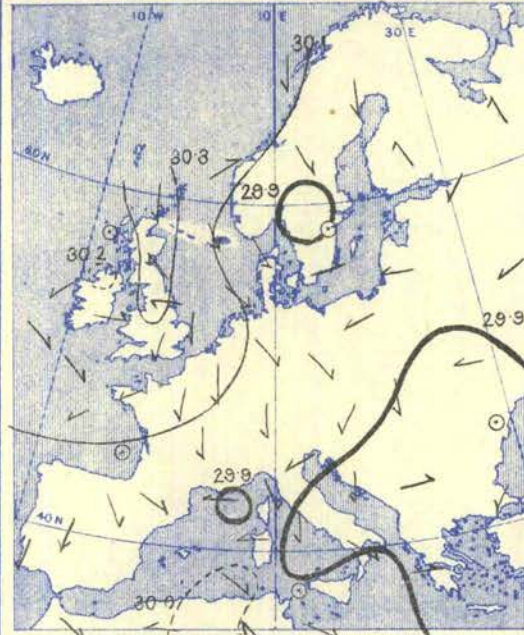
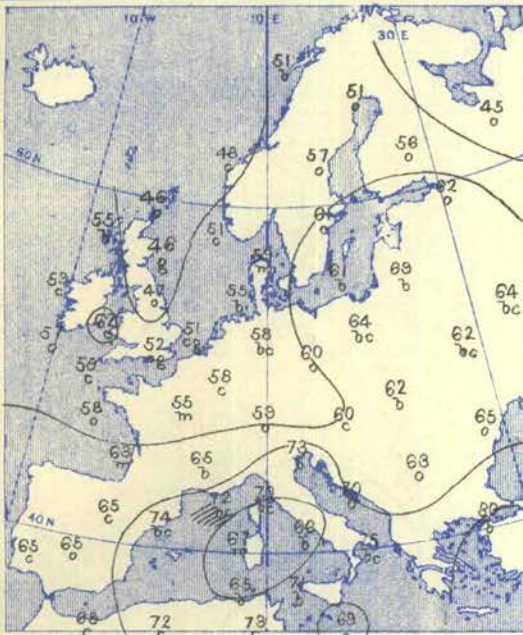
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine at many of our western stations, but dull in all the more eastern parts of the United Kingdom, with drizzling rain in a few places. Fine over the greater part of the Continent, but dull at several of the Swedish, Danish, and German stations. Rain falling later in some of our own western districts, as well as in several parts of Sweden, Germany, and Russia. Thunderstorms occurring at Roches Point, Prawle Point, Brest, and Nemours, and thunder only at Holyhead and Scilly.

Temperature fallen in our Islands, and also in Scandinavia, Denmark, Germany, and Italy; risen in most other countries. Morning readings highest, 80° at Constantinople, 79° at Patras, 78° at Athens, and 75° at Brindisi; above 65° in most parts of central and southern Europe, and above 60° over the Baltic and the Gulf of Finland. Lowest, (1) 45° at Archangel; (2) 46° at Sumburgh Head and Aberdeen, and 47° at Shields. Daily maxima below 55° at most of our own northern, eastern, and central stations, but thermometer rising to 60° and upwards in the west, and to 68° at Parsonstown and Roches Point. Exceeding 70° in many parts of Italy.

Wind light to moderate from between North and East over England, France, and the Netherlands, but North-Westerly in Ireland, and South-Easterly in the north-east of Scotland. Strong from the North-Westward on the eastern shore of the North Sea, and light to moderate from the same quarter, or from North over Sweden, Germany and Italy. Easterly or North Easterly in Russia; variable in Austria; Northerly over the Spanish Peninsula. Subsequently veering to the Northward in Ireland; no important change occurring elsewhere.

Barometer highest, 30.3 ins. and upwards in an anticyclone embracing the greater part of north-western Europe. Lowest, 29.9 ins. and less in a well marked depression over central Sweden, and also in a large area covering the whole of south-eastern Europe. Swedish depression subsequently moving southwards to the Baltic; no other change of importance occurring over our area.

Monday, 13th June.

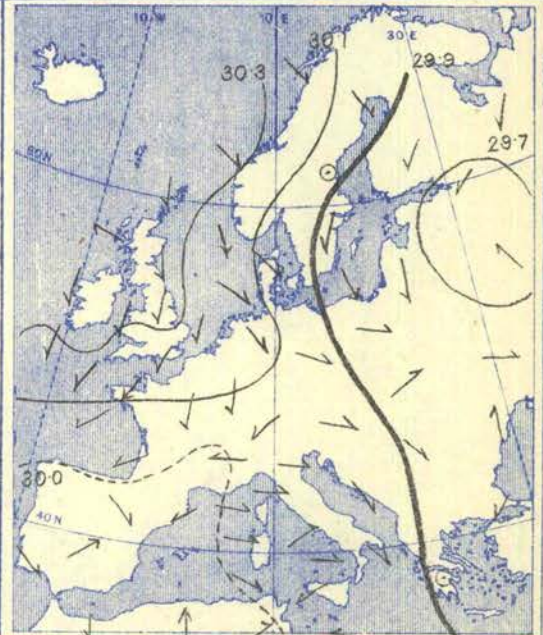
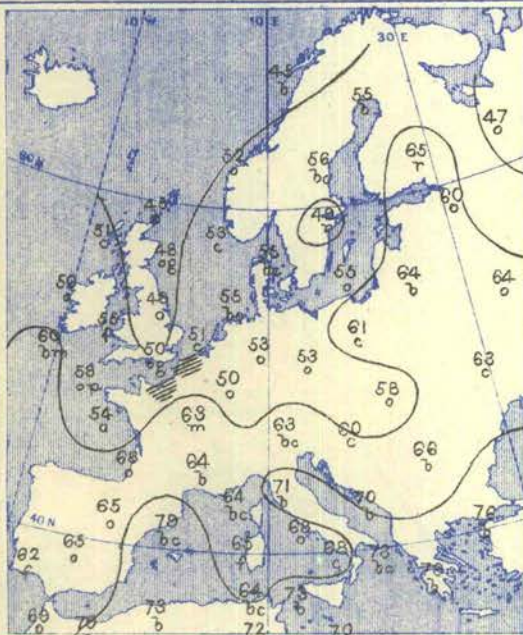
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning dull in most parts of Great Britain, with slight showers at Scilly; foggy on our north-west coasts; fine, but hazy, in the south of Ireland. Fine over Italy, the south of France, and the Mediterranean, as well as at most of the Scandinavian and Danish stations; dull in other parts of the Continent, with rain at Kuopio and Stockholm. Considerable quantities of rain falling later in the south of Sweden, and also in the west of France, and thunderstorms occurring at Nantes and Lyons.

Temperature fallen in most places. Morning readings highest, 79° at Barcelona and Athens, 77° at Patras, and 76° at Constantinople; above 65° over southern Europe generally, and above 60° at most of the Russian stations. Lowest, (1) 45° at Sumburgh Head, 47° at Wick, and 48° at Aberdeen, Shields, Loughborough, and Oxford; (2) 45° at Bodø, and 47° at Archangel. Remaining below 50° all day at many of our own northern, eastern, and central stations, but exceeding 60° in the west, and reaching 70° at Valencia; exceeding 75° in most parts of southern Europe, and reaching 80° at Barcelona.

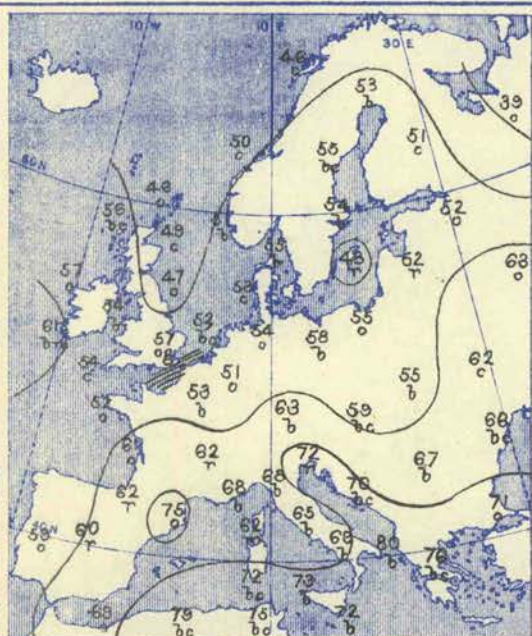
Wind light and rather variable over the northern parts of the United Kingdom, but moderate from the North-Eastward or Eastward in the south, as well as in the Netherlands, and the north of France. Moderate to strong from the Northward or North-Westward over Scandinavia and Denmark; light to moderate from the North-Westward in Germany and Austria, but blowing a gale from West at Neufahrwasser; Southerly over the central parts of Russia. Variable in Italy and the south of France; North-Easterly over the Spanish peninsula. No important change occurring over western Europe during day.

Barometer highest, 30.3 ins. and upwards over Ireland and the northern parts of Great Britain, 30.1 ins. and upwards in an anticyclone covering nearly the whole of north-western Europe. Lowest, 29.8 ins. and less in a large depression over western Russia, and the northern parts of the Baltic, 30.0 ins. and less over Algeria, and also in two small depressions, with their centres lying respectively near Bordeaux and the Isle of Elba. No important change occurring later.

Tuesday, 14th June.

Temperature and Weather.

8 a.m.

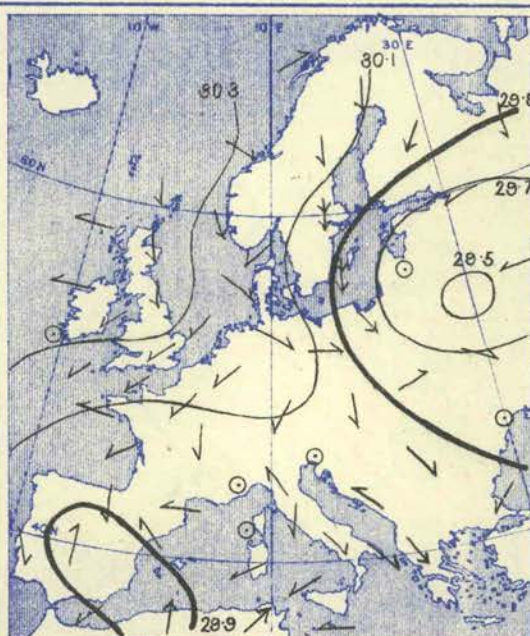


Weather in morning fine at many of our own western and northern stations, as well as in Scandinavia, Denmark, Germany, Austria, and Italy. Cloudy or dull elsewhere, with rain at Biarritz, Perpignan, and Madrid, and also at Riga and Wisby. Sky clearing later in the north and east of England, but weather remaining very dull in the south-east. Rain falling in the southern parts of France and Germany, as well as at Madrid; thunderstorms occurring in the south of France, and also in Algeria.

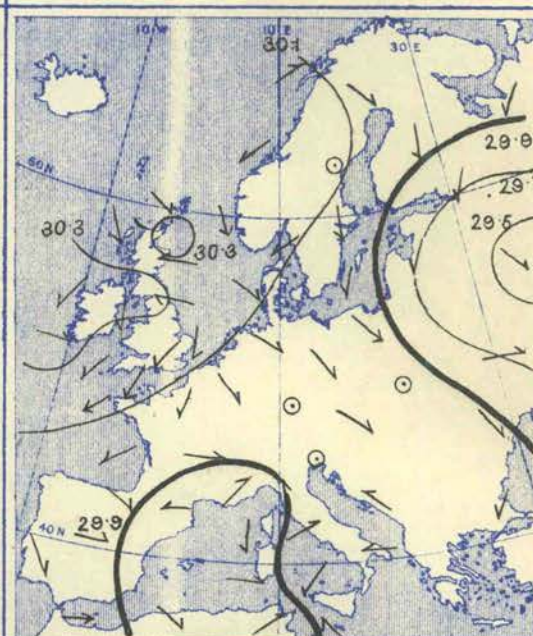
Temperature fallen in France and Spain, and also in Russia, but changed irregularly elsewhere. Morning readings highest, 90° at La Calle, 80° at Brindisi, 79° at Aumale, and 76° at Athens; above 65° in most parts of southern and south-eastern Europe. Lowest, (1) 39° at Archangel, and 46° at Bodö; (2) 46° at Sumburgh Head, 48° at Loughborough, and 49° at Wick and Aberdeen. Remaining below 55° all day in some parts of eastern and central England, but exceeding 60° on our western coasts, and reaching 68° at Parsonstown. Exceeding 70° in most parts of southern Europe, and exceeding 80° in Italy, the highest reading of all being 86° at Florence.

Barometer and Wind.

8 a.m.



6 p.m.



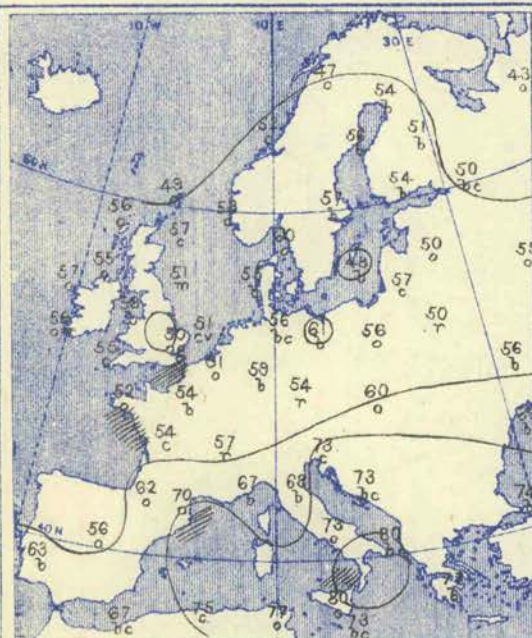
Wind light from the Northward on the eastern coasts of Great Britain, moderate to fresh from the North-Eastward over the south of England, the Netherlands, and the northern parts of France. Moderate to strong from the North-Eastward in Finland, and from the Northward over Scandinavia, with a gale at Stockholm and Wisby; North-Westerly over Denmark, Germany, Austria, and the south of Russia. Variable in Italy; Easterly in the extreme south of France; Northerly on the Portuguese coasts. No important change occurring over western Europe during day; gale in south of Sweden moderating.

Barometer highest 30.3 ins. and upwards over all but the southern parts of the United Kingdom; 30.1 ins. and upwards in an anticyclone covering the whole of north-western Europe. Lowest, 29.6 ins. and less in a well-marked depression over central Russia; 29.9 ins. and less in a shallow area over Spain and a portion of Algeria. No decided change later, but depression over Spain moving eastwards, and becoming rather more pronounced.

Wednesday, 15th June.

Temperature and Weather.

8 a.m.

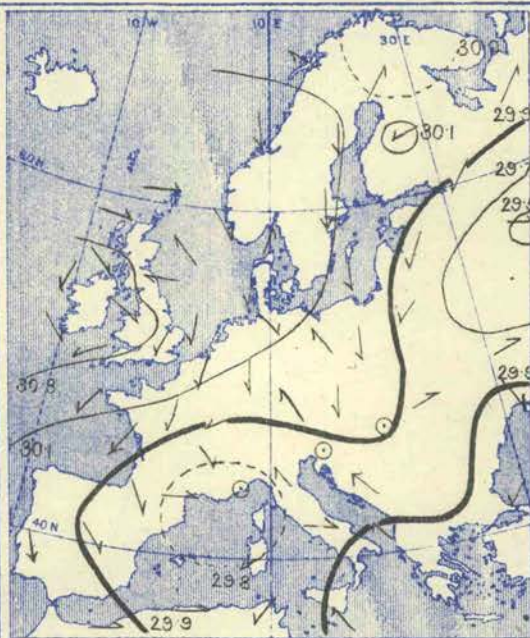


Weather in morning fair or fine over western and northern Europe generally, but dull at several of the English and Irish stations. Dull in most of the central and southern countries, with rain at Munich, Belfort, and Lyons, but fine in Portugal, and also over Greece and northern Italy. Sky clearing later in most parts of England and Ireland, but solar halos seen at Oxford. A little rain falling in the Shetlands and west of Norway, and much larger amounts in the southern parts of France and Germany, with a thunderstorm at Nice.

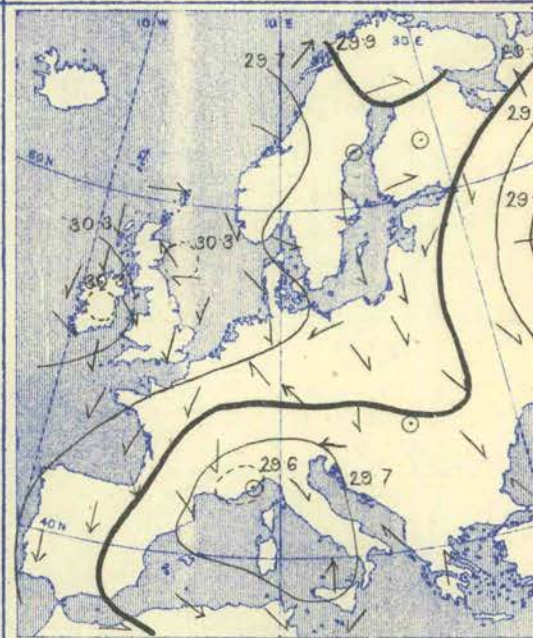
Temperature risen in the west and north of our Islands, and also in Scandinavia and Denmark, but fallen in most other localities. Morning readings highest, 80° at Brindisi and Palermo, 79° at Sfax and 78° at Athens; above 70° in many parts of southern Europe. Lowest, (1) 43° at Archangel, 47° at Bodö and 49° at Sumburgh Head; (2) 48° at Loughborough and 49° at Oxford. Rising during day to 60° and upwards in most parts of the United Kingdom, to 68° at Nairn and to 71° at Parsonstown; exceeding 70° also in most parts of southern Europe, exceeding 80° in Italy and reaching 88° at Brindisi and Palermo.

Barometer and Wind.

8 a.m.



6 p.m.



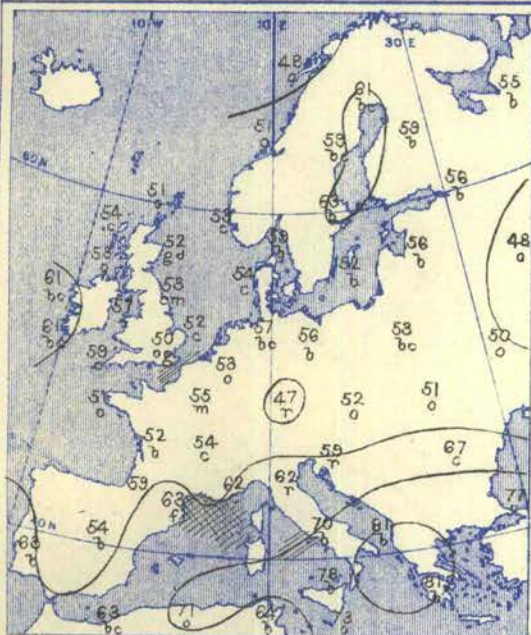
Wind light from the westward or North-Westward over the northern parts of the United Kingdom, but moderate from the Northward or North-Eastward in the south, as well as over the greater part of France and the Netherlands; North-Westerly over the Spanish Peninsula. North-Easterly over Finland, Northerly over Scandinavia, Denmark and Germany; Westerly in the south of Russia. Variable over Austria, Italy and the south of France. No important change occurring during day.

Barometer highest, 30.3 ins. and upwards over Ireland and Wales; 30.1 ins. and upwards in an anticyclone covering the whole of north-western Europe. Lowest, 29.5 ins. and less in a depression over central Russia; 29.8 ins. and less in a large shallow disturbance over the south of France and the neighbouring parts of Italy and the Mediterranean. Scarcely any change occurring over the western countries later but depression off the south of France becoming deeper and spreading northwards.

Thursday, 16th June.

Temperature and Weather.

8 a.m.

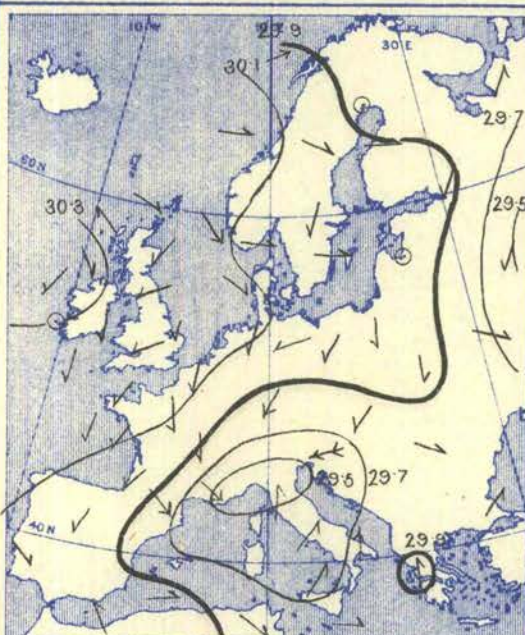


Weather in morning fine in Ireland, but cloudy or dull in most parts of Great Britain, with drizzling rain at Aberdeen. Fine over northern Europe as a whole, and also over the Spanish Peninsula, Greece and southern Italy; dull and rainy over northern Italy and the neighbouring parts of Germany and Austria. Sky clearing later in many parts of England, but slight rain falling at one or two of our northern and eastern stations, as well as in the west of Norway, and considerable quantities over northern Italy and the southern parts of France and Germany. Thunderstorm occurring at Clermont.

Temperature risen in most parts of our Islands, and also over Sweden and northern Russia; fallen in most other localities. Morning readings highest, 81° at Brindisi and Patras, 80° at Athens, and 78° at Palermo, above 70° in many parts of southern Europe. Lowest, (1) 47° at Munich, 48° at Moscow, and 50° at Breslau and Kiev; (2) 48° at Bodø, and 51° at Christiansund and Sumburgh Head; (3) 50° in London and at Oxford. Rising during day to 65° and upwards in many parts of the United Kingdom, France, and Germany to 70° at Parsonstown, exceeding 70° over southern Europe generally, and exceeding 80° in the south of Italy.

Barometer and Wind.

8 a.m.



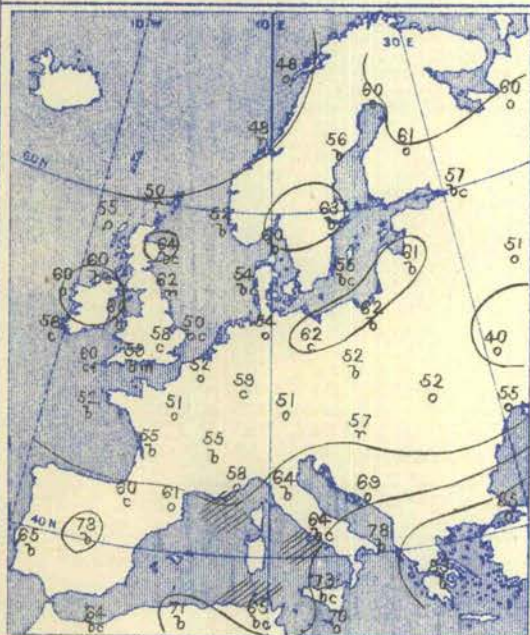
Wind light to moderate from the Northward or North-Eastward over the greater part of our Islands, France, Germany and the Netherlands, but North-Westerly on our own north-west coasts. Westerly over the northern parts of Scandinavia, but Northerly in the south, as well as at most of the Russian stations; Westerly or North-Westerly in Denmark. Fresh to strong from the North-Westward in the extreme south of France, and from the South Westward in Italy; Easterly or North-Easterly in Austria, with a gale at Trieste. Subsequently shifting to the South-Eastward in the north-east of England and the north and east of Scotland; no important change occurring elsewhere.

Barometer highest, 30.3 ins. and upwards over the northern and central parts of Ireland; 30.1 ins. and upwards in an anticyclone embracing the whole of our Islands, the North Sea and the neighbouring parts of the Continent. Lowest, 29.5 ins. and less in an elongated depression extending from the Gulf of Genoa to the northern parts of the Adriatic, and also in another area over central Russia. No important change occurring later, but very shallow depression forming over Scotland, and barometer falling slightly in most parts of our Islands.

Friday, 17th June.

Temperature and Weather.

8 a.m.

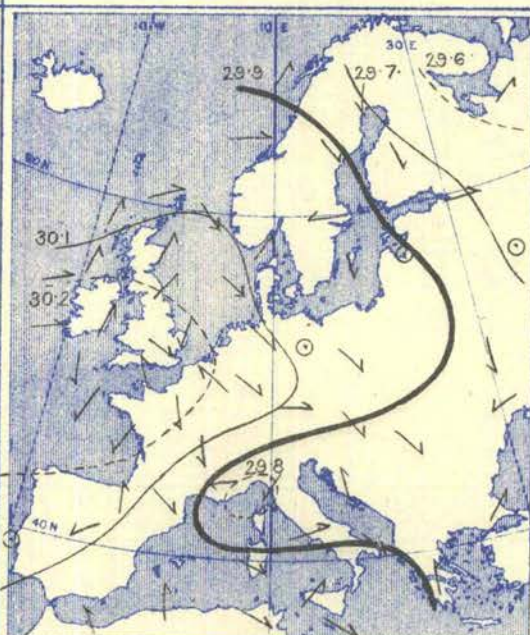


Weather in morning fair or fine over the greater part of our Islands and the Continent but foggy in the western parts of the English Channel and dull in the north of Scotland, and the west of Norway, with rain at Sumburgh Head and Christiansund. Cloudy or dull over Germany and central France, as well as at many of the Russian stations. Rain falling later in the northern parts of our Islands generally, (heavily at Sumburgh Head) and also at some of the Scandinavian stations.

Temperature risen in our Islands, changed very irregularly elsewhere. Morning readings highest, 85° at Constantinople, 83° at Athens, and 78° at Brindisi; above 70° in many parts of southern Europe, and above 60° at some of the Irish and Scotch stations. Lowest, (1) 48° at Bodø and Christiansund, and 50° at Sumburgh Head; (2) 49° at Kiev, and 51° at Moscow and Kharkov; (3) 51° at Paris and Munich. Rising during day to 70° and upwards in many parts of the United Kingdom and the west and south of France, and to 75° at Leith; exceeding 80° over the Spanish Peninsula, and reaching 84° at Oporto.

Barometer and Wind.

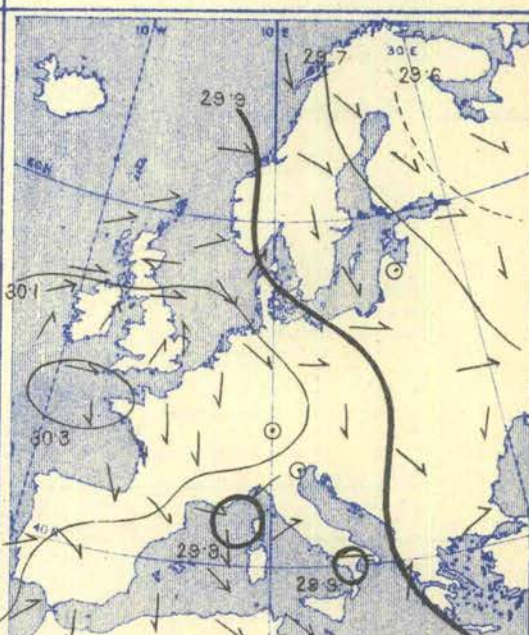
8 a.m.



Wind light from the Southward or South-westward over the northern parts of our Islands, and from the Westward in the South of Ireland, but variable in the south of England, and Northerly or North-Easterly over the greater part of France. Westerly or South-Westerly in the west of Norway; North-Westerly over Russia, Denmark, Germany and the southern parts of Scandinavia. Westerly or South-Westerly in Italy and Greece. South-Westerly breezes setting in later over the whole of the United Kingdom.

Barometer highest, 30.2 ins. and upwards in an anticyclone lying over Ireland, England, the Netherlands, and the north and west of France. Lowest, 29.6 ins. and less in a depression over the north of Russia, 29.3 ins. and less, in a well marked system over the Gulf of Genoa. General fall of the barometer taking place over our Islands later, and new depression beginning to appear off the north of Scotland; no material change occurring elsewhere.

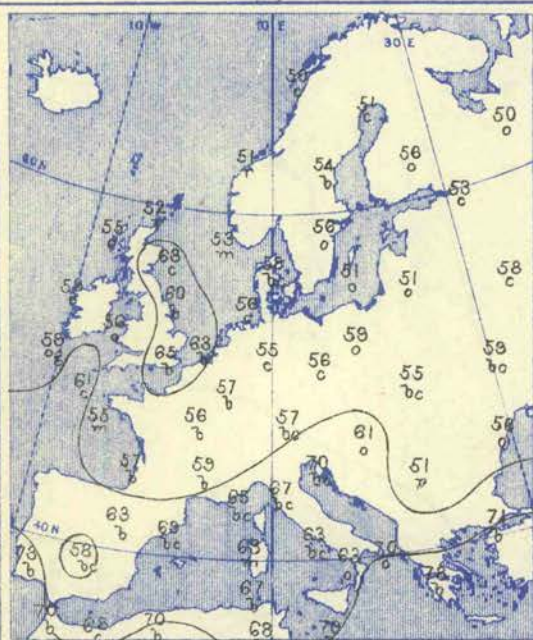
6 p.m.



Saturday, 18th June.

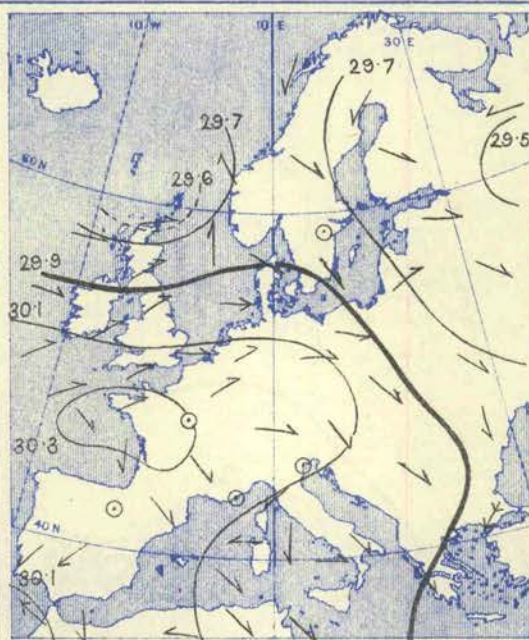
Temperature and Weather.

8 a.m.

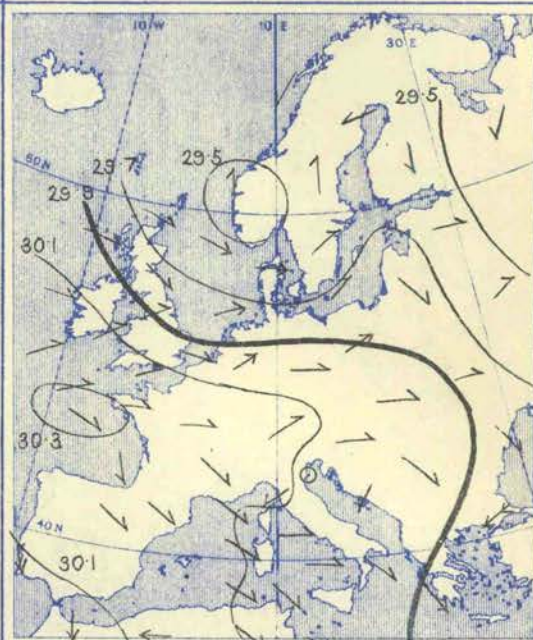


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the south of England and the greater part of the Continent. Cloudy and dull over Ireland, the northern parts of Great Britain and the west of Norway, with rain in several places, dull also at some of the Russian and Austrian stations, with rain at Hermannstadt. Showers falling later in most parts of the United Kingdom, with thunder at Spurn Head; larger quantities of rain occurring at some of the Scandinavian, Danish and northern Russian stations. Thunderstorms occurring at Laghouat.

Temperature risen over Great Britain, France and the west of Norway as well as in Austria and the south of Russia; fallen in most other localities. Morning readings highest, 78° at Athens, 77° at Patras, 76° at Oporto, and 73° at Lisbon; above 65° over southern Europe generally and just reaching that point in London and Cambridge. Lowest, (1) 50° at Bodo and Archangel, and 51° at Christiansund; (2) 54° at Belfort and 55° at Cape Grisez and Jersey. Rising during day to 70° and upwards in many parts of England, France, and Germany to 76° at Cambridge and Perpignan, and to 77° in London; reaching 86° at Lisbon, and 90° at Oporto.

Wind light to moderate from the South Westward or Westward over our Islands, the Netherlands, Denmark, and north Germany, and from the Southward or South-Eastward in Norway. North-Westerly over Russia, Austria, and the eastern and southern parts of Germany. Variable in France, North-Easterly over the Spanish Peninsula and northern Italy; Westerly or North-Westerly over southern Italy. Subsequently veering to the North-Westward in the north of Scotland, and to the Westward in the south of Norway; no important change occurring elsewhere.

Barometer highest, 30.3 ins. and upwards over the northern parts of France; 30.1 ins. and upwards in an anticyclone embracing the whole of Spain, France, Germany, and the southern half of the United Kingdom. Lowest, 29.5 ins. and less (apparently) in a depression over the north of Russia; 29.6 ins. and less in another disturbance off the north of Scotland. Depression off Scotch coasts subsequently moving over Norway, and barometer rising again in the north of our islands. Anticyclone moving slowly south-westwards.

GENERAL NOTES.

During the greater part of this week the north-western countries were under the influence of an anticyclone, the central portion of which lay at first over the northern, and afterwards over the western parts of our islands. The prevailing winds were therefore from the Northward or North-Eastward, and the weather fair and dry, but over Great Britain, the sky for the first three days was almost continuously overcast, and temperature very low for the time of year. Later on, when the sky gradually cleared, the thermometer rose steadily, but it was not until the 17th that it regained its normal height.

Over the eastern parts of the Continent, the weather was affected by a depression of increasing depth, which moved eastwards from Sweden across western and central Russia. In these countries the weather during the early part of the week was therefore cloudy and unsettled, and on the 14th the northerly wind in the rear of the disturbance increased to a gale at some of the Baltic stations. Over southern Europe the weather was at first fine and dry, but was afterwards influenced by a complex depression, which advanced from the southern parts of the Mediterranean, and which occasioned heavy falls of rain over northern Italy and the southern parts of France and Germany, with thunderstorms in several places.

Towards the close of the week, the anticyclone over our islands began to move away to the southward, while a large depression appeared off the north of Scotland, and spread gradually over the greater part of the Kingdom. South-Westerly and Westerly winds therefore set in over north-western Europe generally, with cloudy, showery weather in all the more northern districts, but with fine warm weather in the south of England. The depression over Russia had by this time passed away to the eastward, while the Mediterranean disturbances were filling up, so that in the eastern and southern countries the weather was inclined to improve.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 140.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	12.9	?	10	?	WESTBOURNE (Emsworth)	38.7*	-11.3	34*	-11
STRATHPEPPER SPA	37.3	- 3.5	30	- 3	WATERGATE (Emsworth)	30.7	?	27	?
EDINBURGH	28.7	- 8.6	24	- 7	BRIGHTON	37.1	-14.4	33	-12
MORPETH	27.8	?	23	?	EASTBOURNE	32.5	-18.6	29	-17
NEWCASTLE-ON-TYNE	23.7	?	20	?	VENTNOR HOSPITAL	38.0	?	33	?
OSWALDKIRK (Yorkshire)	25.3	-13.5	21	-12	SOUTHPORT	41.1	?	35	?
SHEFFIELD	25.1	?	22	?	COLWYN BAY	50.8	?	52	?
WORKSOP	26.6	-11.4	23	-10	TENBY	76.8*	+22.8	67	+20
THURCASTON (Leicestershire)	24.8	-15.8	21	+14	NEWQUAY	65.0	+12.1	58	+11
HOLLESLEY BAY	16.0	?	14	?	TORQUAY	57.6*	+ 2.9	51*	+ 2
PLUMSTEAD COMMON	?	?	?	?	GUERNSEY	54.8*	- 4.5	49*	- 5
MARGATE	16.3	-27.7	14	-25					

* The values at Westbourne, Tenby Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature.						Rainfall.			Bright Sunshine.			
		(In Degrees Fahrenheit.)												
		Highest observed.	Lowest observed.	Averages for the week.			Difference of Daily Average from the Mean for the Week.	Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.								
Week ending Mar. 12th, 1898	Scarborough	51	30	45.1	32.4	38.6	- 1.6	9	35	1	0.05	-0.33	36.5	?
" " " 19th, "	Scarborough	54	32	50.7	36.8	43.5	+ 2.6	732	715	4	0.27	-0.13	22.0	- 7
" " " April 9th, "	Laudale	53	35	49.1	40.1	44.5	+ 3.2	25	5	7	2.03	+0.65	—	—
" " " " "	Stamford	67	26	57.3	39.0	47.7	+ 3.0	53	8	2	0.13	-0.29	—	—
" " " 23rd, "	Hereford	67	26	58.4	37.7	47.6	+ 2.3	57	12	3	0.24	-0.19	—	—
" " " " "	Oswaldkirk	—	—	—	—	—	—	—	—	—	—	—	—	—
" " " 30th, "	Cranley	60	29	55.2	40.0	47.2	- 1.8	45	6	5	0.41	?	24.4	- 9

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.VOL. XV. No. 25.]
Third Series.

WEEK ENDING SATURDAY, JUNE 25TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a “Day-degree” signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of “Accumulated Temperature” will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 146.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	66	42	58.7	47.6	52.8	1 below	Day-deg. 76	Day-deg. + 7	Day-deg. 0	Day-deg. - 1	Day-deg. 701	Day-deg. +113	Day-deg. 395	Day-deg. - 227
	1. SCOTLAND, EAST	70	40	63.9	47.7	55.3	0 (average)	93	+ 10	0	0	824	+ 83	427	- 222
	2. ENGLAND, N.E.	72	45	65.9	51.0	57.9	2 above	111	+ 22	0	0	858	+ 115	333	- 216
	3. ENGLAND, EAST	74	44	67.3	52.4	59.4	1 above	122	+ 20	0	0	972	+ 42	410	- 207
	4. MIDLAND COUNTIES	74	43	66.8	51.2	58.4	1 above	115	+ 13	0	0	997	+ 27	404	- 215
5. ENGLAND, SOUTH	78	44	65.8	53.4	59.1	1 above	120	+ 11	0	0	1087	+ 59	234	- 243	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	68	45	61.2	50.4	55.4	1 below	94	+ 6	0	0	917	+ 115	245	- 217
	7. ENGLAND, N.W.	70	48	62.0	51.9	56.6	1 below	102	+ 5	0	0	953	+ 110	215	- 244
	8. ENGLAND, S.W.	72	42	63.2	53.1	57.8	0 (average)	111	+ 8	0	0	1084	+ 83	205	- 156
	9. IRELAND, NORTH	69	42	60.6	49.1	54.4	2 below	87	- 5	0	0	990	+ 101	227	- 168
	10. IRELAND, SOUTH	73	43	62.5	52.5	57.1	0 (average)	106	+ 6	0	0	1184	+ 135	165	- 134
	- CHANNEL ISLANDS.	70	50	63.4	53.9	58.3	0 (average)	114	+ 5	0	0	1330	+ 138	55	- 93

DISTRICTS. (See p. 146.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	14	10ths of in. 7 more	131	+ 18	28.6	+ 7.5	17	- 22	13	- 18	611	+ 25	28	+ 1	
	1. SCOTLAND, EAST	6	7	2 more	99	+ 9	12.1	- 0.9	33	- 9	28	- 6	647	- 10	30	- 1	
	2. ENGLAND, N.E.	6	8	3 more	90	+ 5	9.6	- 1.0	33	- 6	28	- 6	599	- 30	29	- 1	
	3. ENGLAND, EAST	4	5	0 (average)	83	0	9.2	- 1.3	40	- 6	35	- 5	685	- 74	31	- 4	
	4. MIDLAND COUNTIES	5	5	0 (average)	83	+ 2	8.5	- 3.3	43	+ 2	37	+ 2	650	- 18	31	- 1	
5. ENGLAND, SOUTH	3	3	1 less	79	+ 1	9.4	- 2.5	40	- 8	35	- 7	668	- 80	32	- 4		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	14	7 more	113	+ 18	18.9	- 1.9	28	- 15	24	- 12	693	+ 35	33	+ 1	
	7. ENGLAND, N.W.	6	12	7 more	95	+ 8	16.1	+ 2.6	31	- 15	26	- 13	735	+ 69	35	+ 3	
	8. ENGLAND, S.W.	5	10	4 more	92	+ 4	14.4	- 1.6	39	- 13	34	- 12	822	- 2	38	0	
	9. IRELAND, NORTH	7	14	9 more	121	+ 20	17.2	+ 1.6	29	- 13	25	- 10	673	+ 15	31	0	
	10. IRELAND, SOUTH	5	11	5 more	92	- 2	16.3	- 0.9	40	- 4	34	- 4	736	- 13	34	- 1	
	- CHANNEL ISLANDS.	5	9	5 more	101	+ 6	11.6	- 2.1	43	- 10	38	- 9	890	- 57	41	- 3	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the “differences from the mean” for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period was very unsettled and rainy in Ireland, Scotland, and the north of England. In the south and south-east it was fine and dry during the earlier half of the week, but towards its close, the rainy conditions extended to those districts also. Thunder and lightning occurred from time to time in most parts of the Kingdom.

Temperature was slightly above the mean in England N.E. and E., the Midland counties, and England S., and just equal to it in Scotland E., England S.W., Ireland S., and the Channel Islands, but in the remaining districts it was a little below the normal. The highest of the maxima were recorded during the earlier days of the period, when they ranged from 78° in England S., and from 74° in England E. and the Midland counties to 69° in Ireland N., and 66° in Scotland N. The lowest of the minima, which were registered on the 22nd in Scotland, and on the 23rd in Ireland and England, ranged from 40° in Scotland E. to 48° in England N.W., and to 50° in the Channel Islands.

Rainfall was more than the mean in nearly all districts, but only just equal to it in England E.

and the Midland counties, and rather below it in England S. In the northern and western districts generally the excess was either very large or considerable.

Bright Sunshine was deficient in all districts excepting the Midland counties. The percentage of possible duration ranged from 38 in the Channel Islands, 37 in the Midland Counties, and 35 in England E. and S. to 25 in Ireland N., and to only 13 in Scotland N.

Barometer and Wind.—During the earlier part of the period the distribution of pressure was anticyclonic over the Bay of Biscay, France, and Spain, while depressions appeared over our north-western and northern coasts from the Atlantic, and the winds, which were generally moderate in force, varied between South-West and West or North-West. Towards the end of the week the high pressure area passed to Germany, and depressions spread more to the southward and affected the whole of our Islands. The South-Westerly winds experienced on Friday and Saturday blew with considerable force on some parts of our western and southern coasts.

II.—DATA from which the SUMMARY on page 145 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	58	45	53.4	45.6	49.2	- 1.4	50	0	6	Inches. 0.70	Inches. + 0.25	*	*	*	*
	Stornoway	59	43	56.4	48.0	51.9	- 0.7	69	0	7	2.11	+ 1.46	17.7	-25.5	14	-21
	Wick	64	42	60.1	47.3	53.3	+ 0.4	79	0	6	0.43	- 0.02	*	*	*	*
	Lairg	64	45	61.7	47.7	54.2	+ 0.3	85	0	7	1.19	+ 0.65	*	*	*	*
	Glencarron	66	44	58.2	46.9	52.2	- 2.0	71	0	7	2.43	+ 1.28	*	*	*	*
	Fort Augustus	64	45	61.8	48.6	54.7	- 0.8	89	0	7	0.87	+ 0.29	13.7	-17.2	11	-14
1. SCOTLAND, E.	Fort William	61	46	59.1	49.4	53.9	- 1.6	83	0	7	2.09	+ 1.14	17.3	-25.4	14	-21
	Nairn	67	46	65.6	48.0	56.2	+ 0.9	99	0	5	0.72	+ 0.32	*	*	*	*
	Aberdeen	66	45	63.6	49.0	55.8	+ 1.1	97	0	6	0.77	+ 0.38	34.5	-11.4	28	- 9
	Braemar	63	41	59.5	45.5	52.0	- 1.1	70	0	6	0.52	- 0.10	30.8†	-11.5†	25†	-10†
	Ochertyre	70	43	66.0	47.1	55.9	- 0.5	97	0	6	0.97	+ 0.39	*	*	*	*
	Leith	67	47	65.6	50.1	57.3	+ 0.6	107	0	5	0.48	+ 0.06	*	*	*	*
2. ENGLAND, N.E.	Marchmont	65	40	63.3	46.6	54.4	- 0.3	87	0	5	0.53	- 0.04	37.5	- 4.6	31	- 4
	Alnwick Castle	69	45	65.9	49.5	57.1	+ 2.4	106	0	5	0.64	+ 0.22	*	*	*	*
	Durham	72	46	67.2	49.7	57.8	+ 1.3	111	0	7	0.50	+ 0.08	32.3	- 6.8	27	- 6
	Shields	69	46	65.3	51.0	57.7	+ 2.2	110	0	6	0.84	+ 0.44	*	*	*	*
	Scarborough	72	45	65.4	49.9	57.1	+ 0.4	106	0	6	0.91	+ 0.45	39.6	?	34	?
	York	70	47	66.1	51.6	58.4	+ 0.8	115	0	5	1.05	+ 0.54	35.9	- 4.2	30	- 3
3. ENGLAND, E.	Spurn Head	69	50	65.4	54.0	59.3	+ 2.5	121	0	5	0.70	+ 0.33	*	*	*	*
	Hillington	73	45	68.1	52.0	59.5	+ 1.4	123	0	4	0.36	- 0.14	36.4	- 8.7	31	- 7
	Yarmouth	73	46	64.9	53.6	58.9	+ 1.4	118	0	5	0.41	- 0.01	*	*	*	*
	Geldeston	74	44	67.2	51.6	58.9	+ 1.2	118	0	5	0.52	+ 0.12	36.8	-12.2	32	-11
	Cambridge	74	44	69.3	52.1	60.2	+ 1.0	127	0	4	0.47	- 0.03	48.7	+ 3.4	42	+ 3
	Rothamsted	73	45	67.0	52.6	59.3	+ 1.1	121	0	4	0.65	+ 0.15	37.6	- 7.3	33	- 6
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	72	46	68.0	51.6	59.2	+ 1.0	120	0	6	0.42	- 0.08	*	*	*	*
	Loughborough	74	47	69.0	52.7	60.3	+ 0.9	128	0	4	0.37	- 0.13	*	*	*	*
	Stamford (Duddington)	74	43	68.9	51.9	59.8	+ 1.4	125	0	3	0.24	- 0.16	*	*	*	*
	Cheadle	68	43	62.8	49.3	55.6	- 0.3	95	0	6	1.20	+ 0.51	*	*	*	*
	Shirley (near Solihull)	73	44	66.0	51.1	58.0	- 0.1	112	0	5	0.38	?	*	*	*	*
	Churchstoke	71	43	64.4	49.0	56.2	0.0	99	0	6	0.52	+ 0.02	48.4	+ 4.7	41	+ 3
5. ENGLAND, S.	Hereford	73	44	67.0	51.0	58.4	+ 1.2	115	0	4	0.50	- 0.01	49.0	+ 4.2	43	+ 5
	Cirencester	73	44	67.9	52.7	59.8	+ 0.6	125	0	4	0.70	+ 0.22	43.2	- 1.6	38	- 1
	Oxford	73	44	67.9	52.7	59.8	+ 0.6	125	0	4	0.70	+ 0.22	43.2	- 1.6	38	- 1
	London	77	46	70.1	54.6	61.8	+ 1.3	139	0	3	0.30	- 0.15	35.8†	- 6.0†	31†	- 5†
	North Foreland	74	49	66.7	54.0	59.9	+ 2.4	125	0	4	0.43	?	*	*	*	*
	Cranley	73	44	66.7	51.9	58.8	- 0.6	118	0	3	0.43	?	*	*	*	*
6. SCOTLAND, W.	Dungeness	65	45	62.1	53.0	57.2	- 1.0	106	0	1	0.19	- 0.12	*	*	*	*
	Hastings (St. Leonards)	67	46	63.2	52.8	57.6	- 0.8	109	0	3	0.30	- 0.06	46.8	- 5.7	41	- 5
	Southampton	78	48	69.2	54.5	61.3	+ 1.6	135	0	3	0.37	- 0.05	44.5	- 4.2	39	- 4
	Hurst Castle	70	50	63.9	55.1	59.2	+ 0.2	120	0	3	0.17	- 0.25	*	*	*	*
	Shaftesbury	70	45	64.1	51.4	57.3	+ 0.5	107	0	3	0.56	- 0.02	*	*	*	*
	Laudale (Loch Sunart)	63	46	59.8	49.2	54.1	- 1.7	85	0	7	1.91	+ 0.89	*	*	*	*
7. ENGLAND, N.W.	Glasgow	64	47	60.6	49.9	54.9	- 1.2	90	0	7	1.19	+ 0.61	26.2	-12.6	22	-10
	Ardrossan	61	51	60.3	52.3	56.0	- 0.1	98	0	6	1.15	+ 0.65	*	*	*	*
	Glenlee	68	48	63.0	50.2	56.2	+ 0.6	99	0	6	1.18	+ 0.49	*	*	*	*
	Gilerux (Cumberland)	64	48	61.2	50.6	55.5	- 0.9	95	0	6	2.03	?	24.3	?	20	?
	Douglas (Isle of Man)	66	45	62.3	49.9	55.7	0.0	96	0	5	0.86	+ 0.39	33.9	-17.6	29	-15
	Stonyhurst	64	48	60.4	50.9	55.3	- 1.6	93	0	7	1.26	+ 0.54	28.2	-16.5	24	-14
8. ENGLAND, S.W.	Blackpool	67	48	62.8	52.5	57.3	- 0.2	107	0	5	1.23	+ 0.78	26.2	-18.8	22	-17
	Manchester (Prestwich)	67	48	62.2	51.1	56.3	- 0.6	100	0	7	1.19	+ 0.54	24.0	?	20	?
	Liverpool Obsy. (Bidston)	70	49	62.4	52.7	57.2	- 0.7	106	0	5	1.55	+ 1.13	*	*	*	*
	Llandudno	69	50	62.6	53.0	57.5	- 0.2	109	0	6	1.13	+ 0.73	35.1	- 9.9	30	- 9
	Holyhead	66	48	61.7	51.1	56.0	- 1.4	98	0	6	1.01	+ 0.60	*	*	*	*
	Llandovery	71	42	64.4	51.3	57.4	0.0	108	0	7	1.31	+ 0.66	*	*	*	*
9. IRELAND N.	Pembroke	62	50	58.6	53.6	55.9	- 0.7	97	0	5	0.77	+ 0.37	41.6	-13.2	36	-12
	Clifton	69	50	64.9	53.9	59.0	+ 0.6	119	0	5	0.70	+ 0.23	*	*	*	*
	Arlington (N. Devon)	66	46	62.0	51.1	56.2	- 0.2	99	0	6	1.49	+ 0.79	*	*	*	*
	Cullompton	72	46	66.9	53.7	59.8	+ 1.2	125	0	4	1.10	+ 0.50	37.1	- 9.5	33	- 8
	Falmouth	67	50	63.8	54.0	58.6	+ 0.8	116	0	5	0.98	+ 0.33	44.2	- 9.5	39	- 8
	Plymouth	68	49	64.3	54.0	58.8	- 0.8	118	0	3	0.62	+ 0.20	39.0	- 9.1	35	- 8
10. IRELAND, S.	Prawle Point	64	47	60.4	52.9	56.4	- 0.3	101	0	6	0.78	+ 0.44	*	*	*	*
	Malin Head	56	46	55.3	51.0	53.0	- 2.3	77	0	7	1.02	?	*	*	*	*
	Londonderry	66	43	61.1	48.9	54.6	- 2.7	88	0	7	1.45	+ 0.94	*	*	*	*
	Edenfel (Omagh)	67	43	59.9	47.9	53.5	- 2.1	81	0	7	1.71	+ 1.16	*	*	*	*
	Belmullet	61	45	58.0	49.7	53.6	- 3.1	81	0	7	1.31	+ 0.68	*	*	*	*
	Markree Castle	67	44	60.8	48.8	54.4	- 0.8	87	0	7	2.07	+ 1.40	25.5	-14.5	22	-12
CHANNEL ISLANDS	Armagh	66	42	62.1	48.3	54.7	- 1.7	89	0	7	1.48	+ 0.90	31.5	-10.1	27	- 8
	Donaghadee	69	44	64.6	49.7	56.6	+ 0.4	102	0	5	1.27	+ 0.86	*	*	*	*
	Edgeworthstown	69	42	62.8	48.2	55.0	- 2.1	91	0	6	1.06	+ 0.51	*	*	*	*
	Dublin	73	47	64.9	53.2	58.6	- 0.1	116	0	5	0.66	+ 0.29	42.6	- 3.0	36	- 2
	Parsonstown	70	45	63.0	51.3	56.7	- 0.3	103	0	5	1.88	+ 1.39	37.5	- 2.8	32	- 3
	Kilkenny	71	43	64.4	52.0	57.8	+ 0.4	111	0	5	1.20	+ 0.68	*	*	*	*
CHANNEL ISLANDS	Roche's Point	64	48	61.3	52.7	56.7	- 1.7	103	0	5	0.70	0.00	*	*	*	*
	Valencia	64	49	60.4	52.6	56.2	- 1.3	99	0	5	0.76	- 0.10	39.6	- 7.8	34	- 7
	Killarney	70	49	62.0	53.2	57.3	+ 0.7	107	0	6	1.14	?	*	*	*	*
	Foynes	69	48	61.6	52.4	56.7	0.0	103	0	7	1.35	?	*	*	*	*
	Scilly (St. Mary's)	66	50	63.4	53.7	58.2	+ 0.5	113	0	5	0.78	+ 0.39	33.7	?	30	?
	Jersey	70	53	63.3	54.1	58.4	- 1.3	115	0	5	0.99	+ 0.61	41.1	-15.6	37	-14

Stations marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

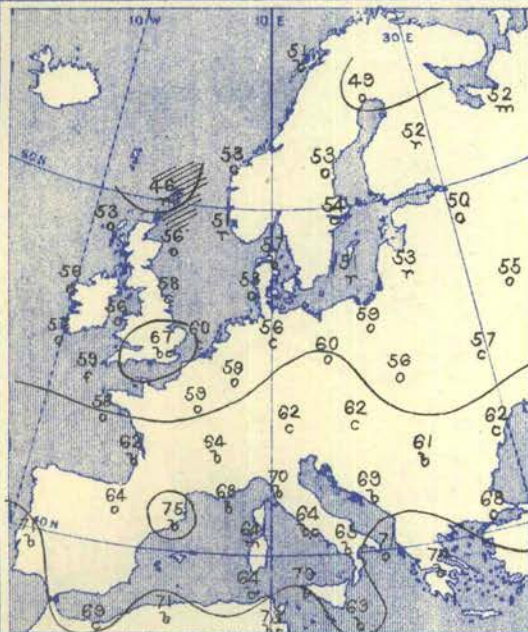
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 19th June.

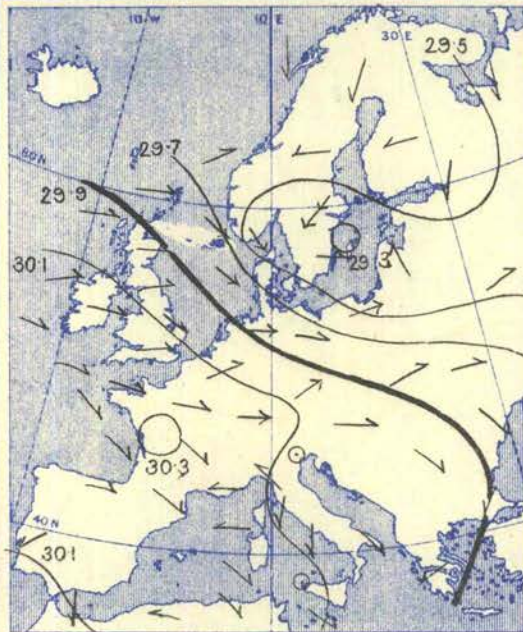
Temperature and Weather.

8 a.m.

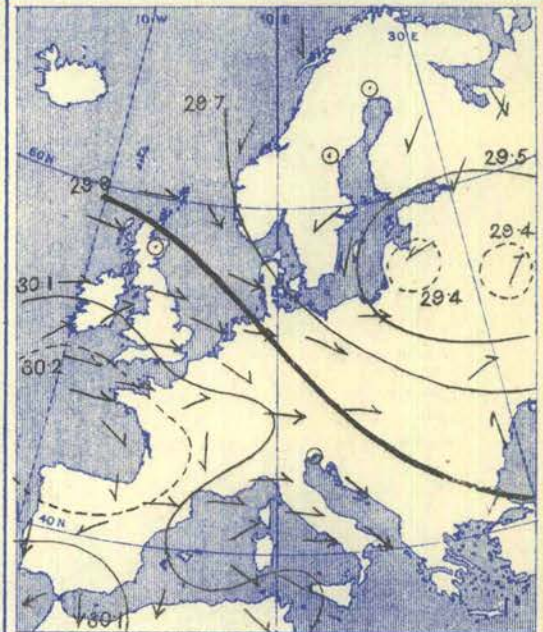


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair, but very cloudy over the British Islands and the northern half of France, rainy in many parts of Germany, as well as in some parts of Finland and Denmark, fine and bright over southern and south-eastern Europe, and on the southern shores of the Mediterranean. Rain falling later over the northern parts of the Kingdom, and very small quantities over the south-east of England; some also over north Germany and Austria-Hungary, and a heavy fall, locally, at Riga.

Temperature fallen over the northern and western parts of our Islands. Morning readings highest, 75° at Barcelona, 74° at Patras, and exceeding 70° at many of the stations on the southern side of the Mediterranean; 60° to 67° over the south of England. Lowest, (1) 46° at Sumburgh Head, 50° to 53° over the north of Scotland and west of Norway; (2) 50° at St. Petersburg, 51° at Wisby. Rising later to between 70° and 74° over the southern half of England, to 78° at Paris, 76° at Lyons, 84° at many of the southern French stations, but not touching 70° over Germany.

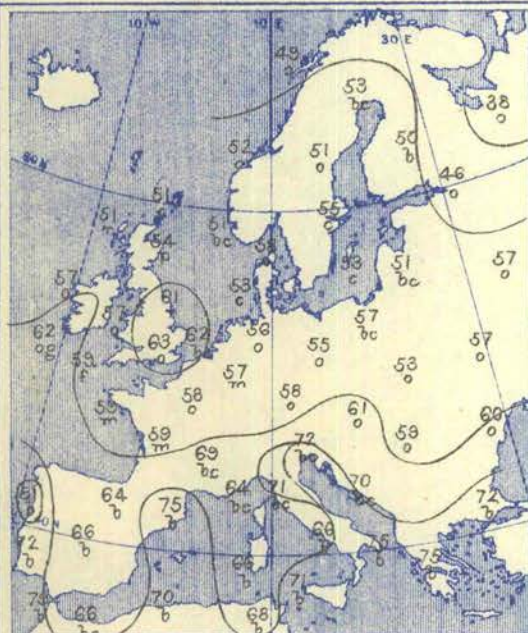
Wind (1) Easterly to North-Easterly over northern Europe, North-Westerly to Westerly over Germany, Austria, and the southern half of Russia; (2) light and anticyclonic over France, the Bay of Biscay, and the south-western and southern parts of the British Islands; (3) very light and variable over the Mediterranean. Blowing freshly later over Germany, and backing towards south over Ireland.

Barometer highest, (1) 30.3 ins. and more at Limoges, and exceeding 30.1 ins. all over Spain, France, and the western and southern parts of our Islands; (2) exceeding 29.6 ins. over the northern half of Scandinavia. Lowest, 29.3 ins. in a depression over the Baltic, and having its centre near Wisby, and below 29.5 ins. in a secondary system near Christiania. Both depressions moving south-eastwards later, and new disturbance apparently advancing towards Ireland.

Monday, 20th June.

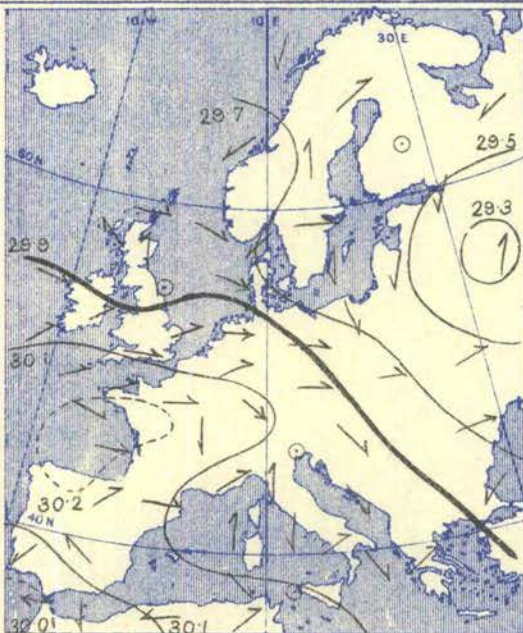
Temperature and Weather.

8 a.m.

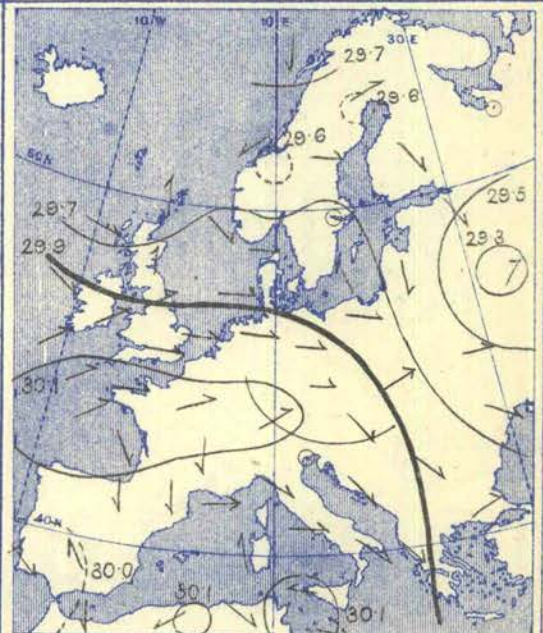


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull and rainy (1) over Scotland and (2) over the southern and western parts of Russia; fair over the greater part of England and France, fine and bright over the Mediterranean. Much rain later over the southern parts of Austria and Russia (1.5 ins. and more at Trieste and more than 1.2 ins. at Kharkov); smaller quantities over the northern and western parts of the British Islands, none over south-western Europe, France or the greater part of England.

Temperature in morning highest, 81° at Oporto, 75° at Barcelona and Patras, 69° at Lyons, 64° at Belfort, and 64° to 61° over central England. Lowest, 58° at Archangel, 46° at St. Petersburg, 49° at Rodez, 51° at Sumburgh Head, Stornoway and at Riga. Rising later to between 70° and 76° over England, to 75° at Paris, 78° at Lyons, 87° at Perpignan and 91° at Lisbon; to 80° in the north of Italy, 86° at Marseilles, and 93° in some parts of Algeria.

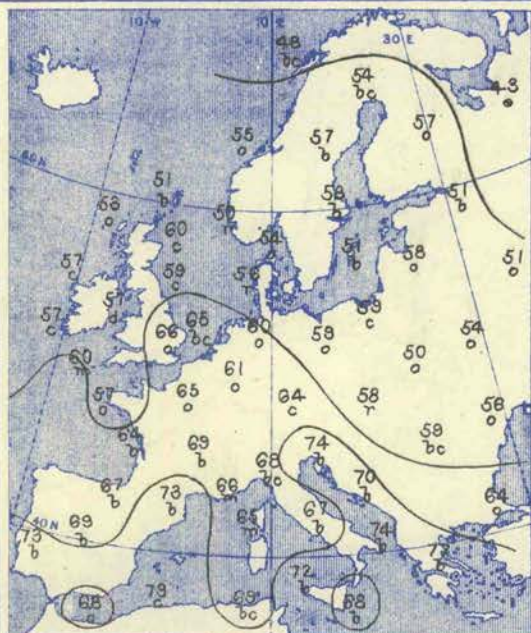
Wind (1) Westerly and South-Westerly, light to moderate over Ireland, England and the Channel, Southerly or South-Easterly over Scotland; (2) light, but completely cyclonic over Russia; (3) very light and variable over France and the Mediterranean. Becoming Westerly, but light over Scotland later—no great change elsewhere.

Barometer highest, 30.2 ins. and more to 30.1 ins. over France and many parts of the Mediterranean. Lowest, below 29.3 ins. in a depression over central Russia, and below 29.8 ins. in a small system over Scotland. Latter system moving north-eastwards later; shallow disturbances appearing over the south of France and north of Italy.

Tuesday, 21st June.

Temperature and Weather.

8 a.m.

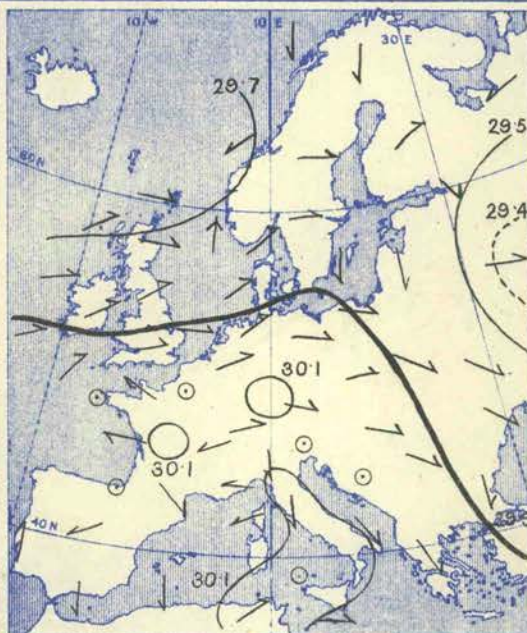


Weather in morning fine over the greater part of the Continent, but dull over the southern half of Russia, still rainy over Austria; fair over the south-eastern half of the British Islands, but foggy in places, dull and rainy in the west and north. Rain falling later in many parts of the United Kingdom—heavily at York, locally in some parts of Germany also; thunderstorms occurring at several of our northern stations.

Temperature in morning highest, 77° at Patras, 74° at Trieste, and exceeding 70° at several of the Mediterranean and Adriatic stations; 65° at Belfort, 63° at Münster; 66° to 68° over the inland and eastern parts of England. Lowest, 43° at Archangel, 48° at Bodø, 50° at Skudesnæs, and below 60° almost all over Scotland, northern Europe and Russia. Rising later to between 65° and 70° at many of our northern stations, and touching 77° in London, 79° at Wiesbaden, and 80° to 85° over the southern half of France and Italy, and 95° at Algiers.

Barometer and Wind.

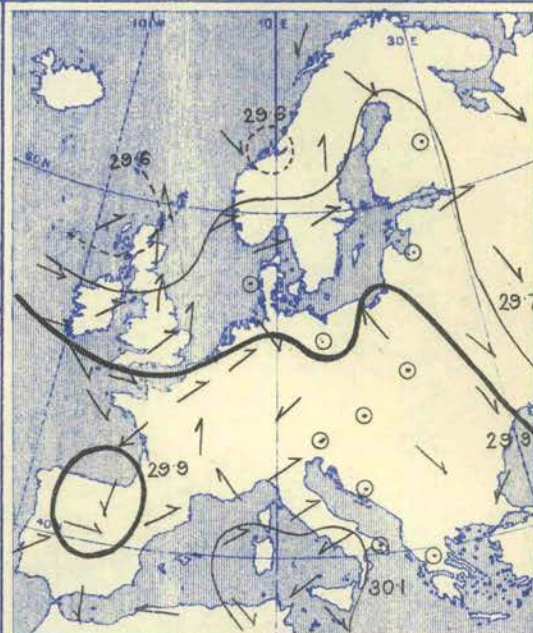
8 a.m.



Wind (1) very light and variable over France and southern Europe; (2) light to moderate from South-West and West over the British Islands, and from a more southerly point on the eastern shores of the North Sea; (3) very light from the Northward over Finland and the Baltic Provinces, and from the Westward over Hungary and the south of Russia. Veering to North-West over the western parts of the United Kingdom later, but becoming Southerly on our north-east coasts.

Barometer highest, 30.1 ins. and more to 30.0 ins. over the Mediterranean, southern Europe, France and the south-west of Germany, as well as the eastern shores of the Adriatic. Lowest, (1) below 29.7 ins. over the north of Scotland and the west of Norway; (2) below 29.4 ins. in a depression over central Russia. Falling later over the United Kingdom, and a "V" shaped secondary appearing over the northern parts of Great Britain.

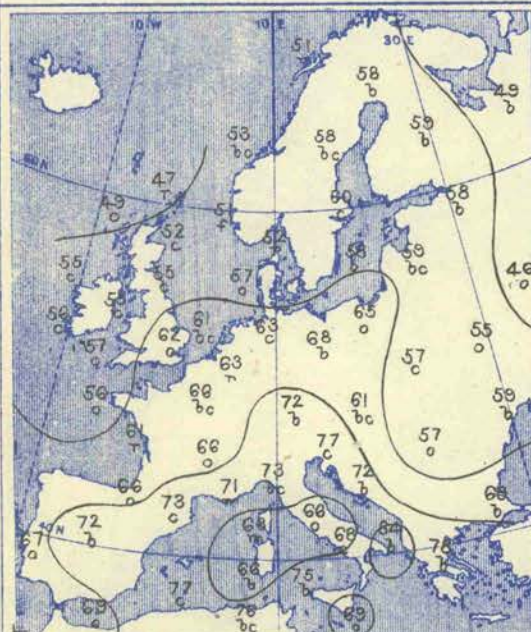
6 p.m.



Wednesday, 22nd June.

Temperature and Weather.

8 a.m.

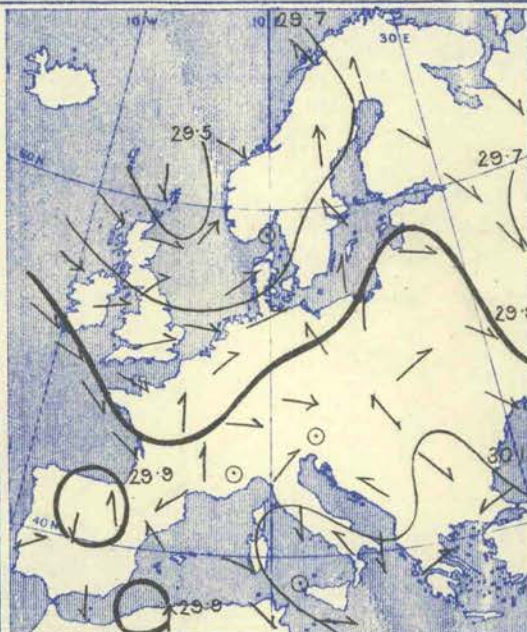


Weather in morning fair over the greater part of our Islands, France and Spain, as well as over central and northern Europe; dull over Russia, showery in the south of Scandinavia. Some rain falling later in many parts of our Islands, and larger quantities locally in various parts of France and Germany. Thunder occurring in the north and east of England, heavy rains in the south and east of France, and severe thunderstorms at night in many parts of Germany.

Temperature fallen over the British Islands. Morning reading highest, 84° at Brindisi, 78° at Patras, 77° at Algiers and Trieste, 73° at Loughorn, 71° at Belfort; above 60° over France as a whole, 62° in London, 60° at Loughborough. Lowest, 47° at Sumburgh Head, 49° at Stormoway and Archangel, 52° at Aberdeen, 55° at Holyhead. Not touching 70° over our Islands later, except in London, but reaching 73° at Lyons and Nice, 80° at Paris, 82° at Berlin, and 88° at Belfort, 84° in the north of Italy, 88° at Brindisi, and 97° at Algiers.

Barometer and Wind.

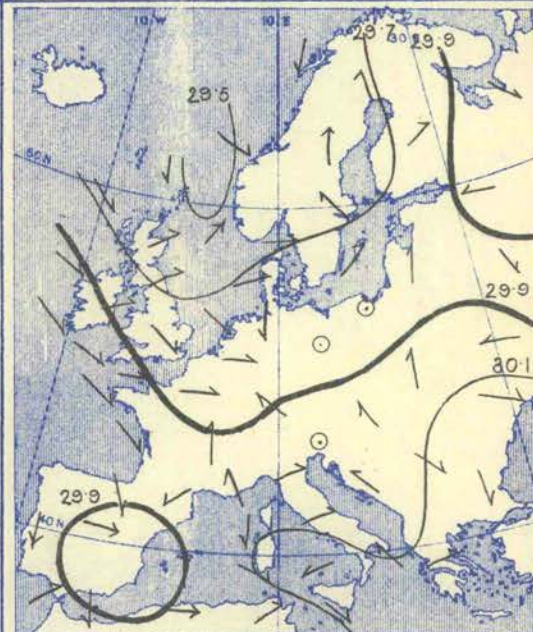
8 a.m.



Wind (1) rather fresh from North-West on our western and north-western coasts, light Westerly over England, South-Westerly to Southerly on the eastern shores of the North Sea, South-Easterly to Easterly over Lapland; (2) very light North-Westerly over Russia; (3) light and variable over the Mediterranean, southern and south-eastern Europe. The North-Westerly wind becoming more general over our Islands later, and blowing strongly in the north of Ireland.

Barometer highest, (1) 30.1 ins. and more to 30.0 ins. over the eastern parts of the Mediterranean and south-eastern Europe, and exceeding 29.9 ins. not only over central Europe and western Russia, but off our western and south-western coasts also; (2) 30.25 ins. in the Azores. Lowest, about 29.4 ins. in the Shetlands, and below 29.6 ins. over the north-eastern half of Scotland and the west and north-west of Norway. Rising later over the United Kingdom—especially in the west.

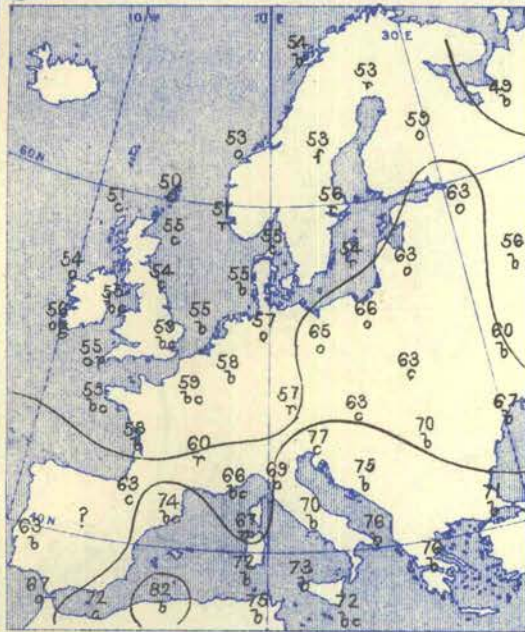
6 p.m.



Thursday, 23rd June.

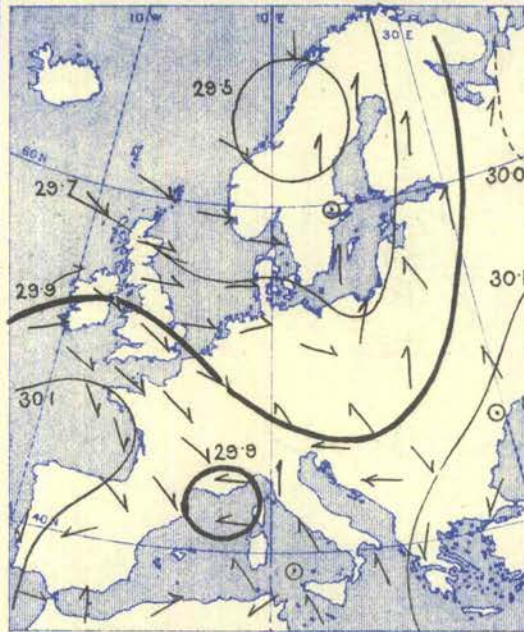
Temperature and Weather.

8 a.m.

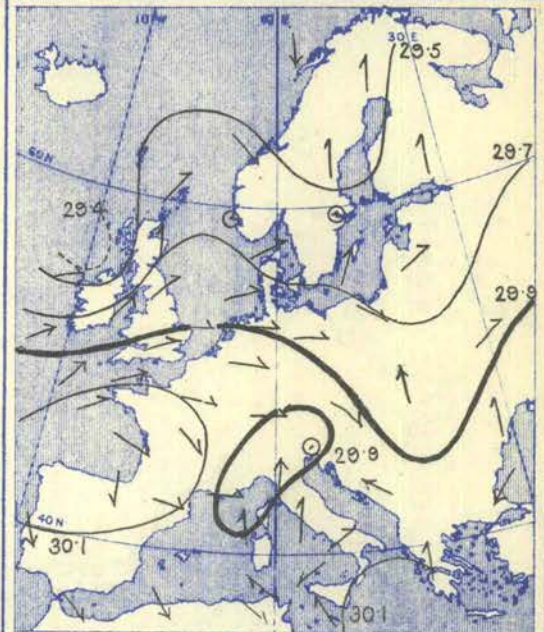


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands and the north and east of France, as well as over the greater part of Russia, very changeable elsewhere, rainy in the northern parts of Finland and in Switzerland, and becoming unsettled over Ireland also. Rain falling later in all parts of our Islands (0.4 in. to 0.5 in. over Ireland), and as much as 0.9 in. reported at Munich. Thunderstorm reported at Cuxhaven. Becoming squally and unsettled over our Islands generally, and rain falling over the northern parts of France and the east and south of Germany.

Temperatures falling over western Europe generally. Morning readings highest, 83° at Pesaro, 82° at Algiers, and much above 70° at many of the Mediterranean and Adriatic stations; 60° at Lyons, 59° at Paris and in London, 65° to 70° over the greater part of Germany. Lowest, 49° at Archangel, 50° at Sumburgh Head, 51° at Stornoway, and below 55° over the most northern districts generally. Falling to reach 70° in any part of our Islands and the north of France later, but touching 72° at Berlin, 77° at Nice, and 81° at Wiesbaden.

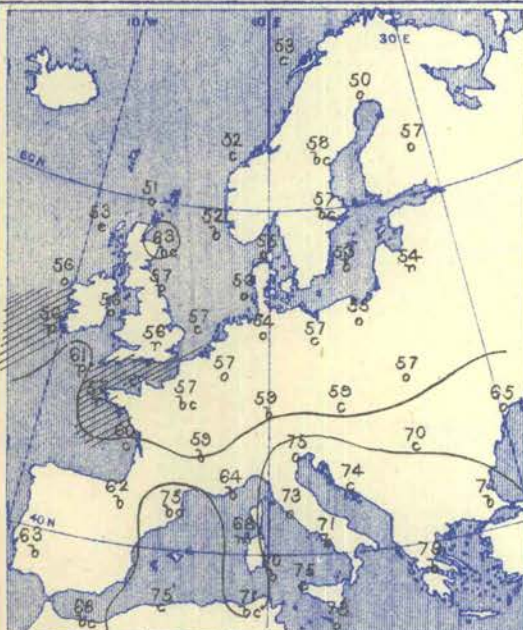
Wind somewhat variable in direction, but North-Westerly to Westerly over England and France; South-Easterly to Southerly over Germany and the Baltic, and very variable over southern Europe and the Mediterranean. Becoming strong to a gale in force from South and South-West in many parts of the United Kingdom later.

Barometer highest, 30.1 ins. and more to 29.9 ins. both over south-western and south-eastern Europe. Lowest, 29.5 ins. and less in a depression over the northern half of Scandinavia; an irregular "hollow" covering the Baltic and Germany. Falling fast over the United Kingdom later, as a new depression advanced over our western and northern districts from the Atlantic.

Friday, 24th June.

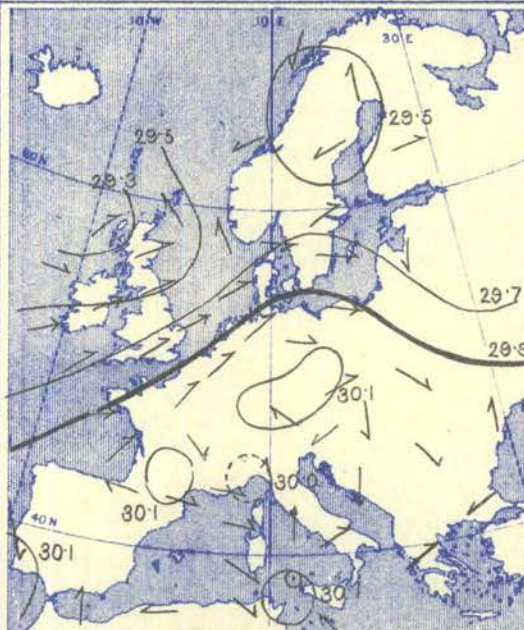
Temperature and Weather.

8 a.m.

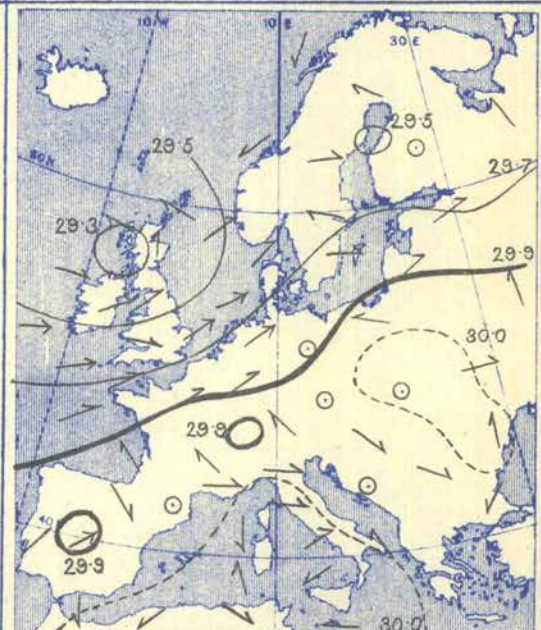


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning becoming very changeable and unsettled all over the British Islands and their neighbourhood, rain falling in many parts of Ireland, England, the north of France and the Netherlands, as well as at St. Petersburg, and in some parts of central Europe, but very fine conditions prevalent over southern Europe and the Mediterranean. Rain falling later over the British Islands very generally, and in the north of France and west of Norway, thunder occurring in some parts of England. Heavy local rain at Hermanstadt, and in some parts of Russia.

Temperature fallen fast over the north and east of Germany, and the Baltic Provinces, changing fitfully over the United Kingdom. Morning readings highest, 79° at Patras, 75° at Algiers and Barcelona; exceeding 60° in the south and southwest of France and the south of Russia. Lowest, 51° at Sumburgh Head, 52° at Christiansund and Skudesnaes, and below 60° over the most northern countries generally. Maxima recorded during the day varying greatly: touching 60° at York, 71° at Spurn Head, but only 61° in London, 58° at Pembroke and Valencia. Rising to 67° at Paris, 70° at Berlin, 72° at Belfort, and 77° at Perpignan, 97° at Brindisi, 90° at Aumale.

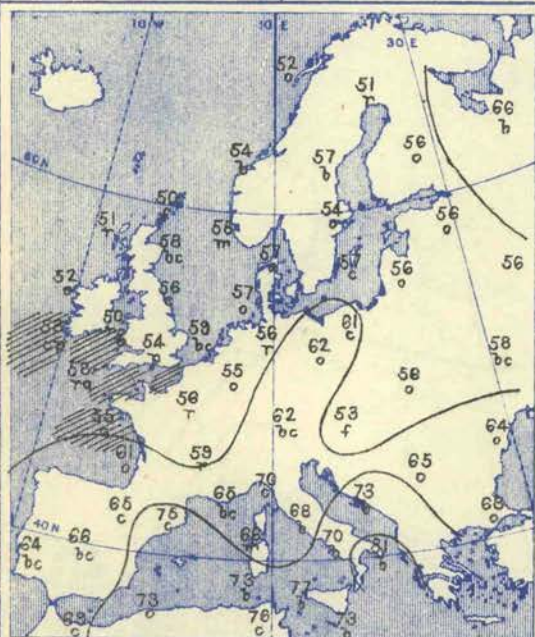
Wind (1) South-Westerly and strong over Ireland and England, Southerly to South-Easterly and moderate in the north of Scotland, North-Easterly and variable on the coast of Norway; (2) a separate cyclonic circulation observed over Sweden and the Gulf of Bothnia; (3) light and anticyclonic breezes over Spain, France, and the Mediterranean. Veering more to the Westward over England later, but continuing strong in most places.

Barometer highest, 30.1 ins. and more to 29.9 ins. over Spain, the Mediterranean, France and Germany. Lowest, below 29.5 ins. in a depression over the northern half of Scandinavia, and 29.3 and less to 29.4 over the north-western and northern parts of the United Kingdom. A definite depression being formed over Scotland later, and spreading southwards.

Saturday, 25th June.

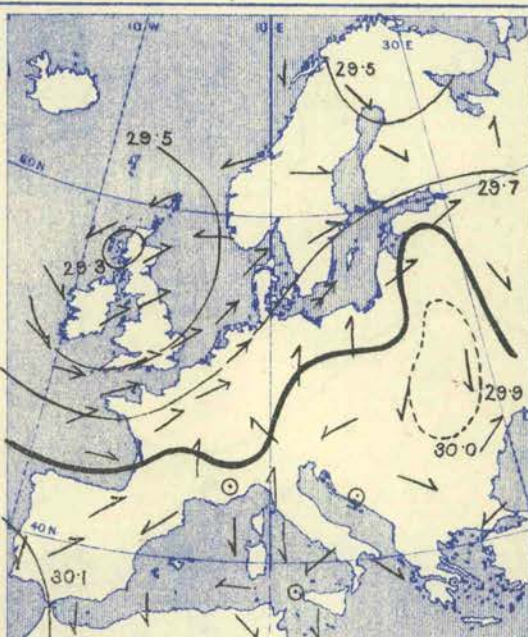
Temperature and Weather.

8 a.m.

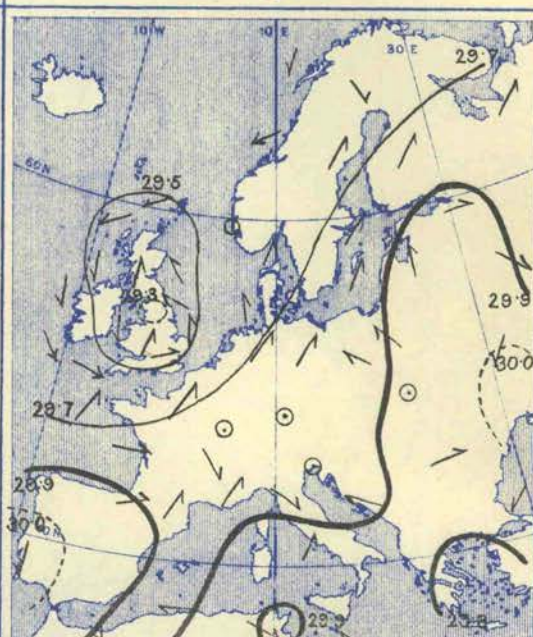


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over eastern, central, and southern Europe, but cloudy in many places; dull, unsettled, and showery over the western and north-western countries, with thunder occasionally. Thunderstorms occurring later in the north-east and east of England; rain, more or less, in almost all parts of our Islands and France, and amounts large at Stornoway (1.23 ins.), and considerable at several of the French and Dutch stations.

Temperature risen over France and Germany, but falling slowly over the British Islands. Morning readings highest, 81° at Brindisi, 77° at Palermo, and above 70° at most stations over the Mediterranean and Adriatic; 63° to 60° over north Germany. Lowest, 50° at Sumburgh Head and Holyhead, and below 53° at most of the extreme northern stations; below 60° all over our Islands, Scandinavia, and the Baltic. Not exceeding 65° in any part of our Islands later, but touching 70° at Paris, and 77° at Berlin, Munich, and Nice, 81° at Marseilles, 84° at Rome, 90° at Palermo, and 102° at Annale.

Wind (1) very light and variable (mainly anticyclonic) over the eastern, south-eastern, and southern countries; (2) cyclonic and stronger in the north-west. North-easterly in the west of Norway, the Shetlands, and the Hebrides, North-Westerly on our western coasts, but Westerly to South-Westerly over France, South-Westerly to Southerly over the eastern shores of the North Sea and the Baltic, and blowing a gale at Wisby. Becoming more Northerly on our western coasts later, and backing to South-East in the east of Scotland; still South-Westerly over the North Sea.

Barometer highest, 30.1 ins. to 29.9 ins. all over the Iberian Peninsula, and exceeding 29.9 ins. over the Mediterranean, south-eastern and eastern Europe. Lowest, below 29.3 ins. in a depression over Scotland, and below 29.5 ins. in almost all parts of our Islands, as well as in another low-pressure system over the east of Lapland and the Kola Peninsula. Rising later over the western and northern parts of the British Isles, falling over our south-eastern coasts and France; British depression moving south-eastwards, and undergoing considerable modification.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: $-b$ = blue sky; $-c$ = detached clouds; $-o$ = overcast; $-m$ = misty (hazy); $-f$ = foggy; $-q$ = squally; $-r$ = rain; $-h$ = hail; $-s$ = snow; $-l$ = lightning; and $-t$ = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the first few days of this period barometric pressure was highest over the Bay of Biscay, Spain, France, and later on over Germany. It was lowest first over the Baltic and Russia, and afterwards some other low-pressure systems advanced from the Atlantic over Scotland and the northern countries of Europe. It was in these last named countries that falls of rain occurred—in many cases thunder was reported, and it was in secondaries which reached our coasts on Tuesday, and moved eastwards, that the heavy thunderstorms recorded in various parts of Germany on Wednesday night were due.

On Thursday a new disturbance began to approach Ireland from the Westward, and this moved first in a north-easterly, and afterwards in a south-easterly direction—finally passing across our Islands on its way to central Europe. Rainy weather now became general, both in the British Islands and France, and some other disturbances over Austria caused unsettled weather over Austria and the north of Italy also.

Towards the end of the week the British depression was advancing slowly to the south-eastwards; Northerly winds were spreading over the Scotch and Irish parts of our Islands, but showery cold weather was still prevalent in most places, with a tendency to clear up in the extreme north-west and north. Temperature was low and falling.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 146.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	16.9	?	13	?	WESTBOURNE (Emsworth)	34.0*	-14.8	30*	-13
STRATHPEFFER SPA	18.5	-22.1	15	-18	WATERGATE (Emsworth)	30.8	?	27	?
EDINBURGH	30.9	-5.4	26	-4	BRIGHTON	35.1	-16.7	31	-14
MORPETH	27.3	?	23	?	EASTBOURNE	44.7	-5.8	39	-6
NEWCASTLE-ON-TYNE					VENTNOR HOSPITAL	45.6	?	40	?
OSWALDKIRK (Yorkshire)	20.2	-8.0	25	-7	SOUTHPORT	33.0	?	28	?
SHEFFIELD	38.5	?	33	?	COLWYN BAY	37.1	?	32	?
WORKSOP	35.7	-0.5	31	-1	TENBY	38.3*	-16.8	33*	-15
THURCASTON (Leicestershire)	42.3	+3.6	37	+3	NEWQUAY	29.0	-24.3	26	-21
HOLLESLEY BAY	42.7	?	37	?	TORQUAY	42.7*	-12.1	38*	-11
PLUMSTEAD COMMON					GUERNSEY	52.8*	-5.0	47*	-4
MARGATE	38.3	-3.7	34	-3					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C. ; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW ; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 26.]
Third Series.

WEEK ENDING SATURDAY, JULY 2ND, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 152.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	75	36	60.4	47.6	53.6	1 below	Day-deg. 81	Day-deg. + 8	Day-deg. 0	Day-deg. - 1	Day-deg. 782	Day-deg. +121	Day-deg. 395	Day-deg. -228
	1. SCOTLAND, EAST	75	32	64.4	46.6	54.9	1 below	90	0	0	0	914	+ 83	427	-222
	2. ENGLAND, N.E.	77	39	63.4	48.5	55.4	2 below	94	- 2	0	0	952	+113	333	-216
	3. ENGLAND, EAST	74	42	66.3	50.4	57.8	1 below	111	+ 3	0	0	1083	+ 45	410	-207
	4. MIDLAND COUNTIES	76	37	67.1	47.4	56.5	2 below	102	- 6	0	0	1099	+ 21	404	-215
5. ENGLAND, SOUTH	76	40	66.5	51.8	58.7	1 below	117	+ 2	0	0	1204	+ 61	234	-243	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	69	41	62.6	49.3	55.5	1 below	95	+ 2	0	0	1012	+117	245	-217
	7. ENGLAND, N.W.	68	42	62.3	49.9	56.0	2 below	98	- 4	0	0	1051	+106	215	-244
	8. ENGLAND, S.W.	71	38	64.3	50.6	57.0	2 below	105	- 3	0	0	1189	+ 80	205	-156
	9. IRELAND, NORTH	70	39	61.9	49.7	55.4	1 below	94	- 3	0	0	1084	+ 98	227	-168
	10. IRELAND, SOUTH	69	40	62.8	51.4	56.7	1 below	103	- 2	0	0	1287	+133	165	-134
—CHANNEL ISLANDS.		68	47	63.4	53.9	58.3	1 below	114	- 1	0	0	1444	+187	55	- 93

DISTRICTS. (See p. 152.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	10ths of in. 3	10ths of in. 4 less	134	+18	Ins. 28.9	+ 7.0	35	- 4	28	- 3	646	+21	28	+ 1
	1. SCOTLAND, EAST	3	1	4 less	102	+ 9	12.2	- 1.4	42	+ 2	35	+ 2	689	- 9	30	- 1
	2. ENGLAND, N.E.	4	3	2 less	94	+ 6	9.9	- 1.2	40	+ 1	33	+ 1	639	-29	29	- 1
	3. ENGLAND, EAST	4	9	4 more	87	+ 2	10.1	- 0.9	43	- 3	38	- 2	728	-77	32	- 3
	4. MIDLAND COUNTIES	4	6	1 more	87	+ 4	9.1	- 3.2	43	+ 4	37	+ 3	693	-15	31	- 1
5. ENGLAND, SOUTH	4	3	2 less	83	+ 3	9.7	- 2.7	47	0	41	0	715	-79	33	- 3	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	3	4 less	117	+18	19.2	- 2.3	39	- 3	32	- 3	732	+32	34	+ 2
	7. ENGLAND, N.W.	4	5	1 less	99	+ 9	16.6	+ 2.6	42	- 3	36	- 2	777	+67	35	+ 3
	8. ENGLAND, S.W.	3	5	1 less	95	+ 5	14.9	- 1.7	59	+ 7	52	+ 7	881	+ 6	39	0
	9. IRELAND, NORTH	4	2	4 less	125	+20	17.4	+ 1.3	35	- 5	30	- 3	708	+10	31	+ 1
	10. IRELAND, SOUTH	3	5	1 less	95	- 2	16.8	- 0.9	32	-10	28	- 9	768	-23	34	- 1
— CHANNEL ISLANDS.		5	3	1 less	106	+ 9	11.0	- 2.2	50	+ 1	45	+ 1	940	-57	41	- 3

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather was again very changeable, with frequent showers in most districts, and with a rather heavy fall of rain at some of the English and Irish stations on July 1st. Thunder and lightning occurred in many parts of the Kingdom on June 26th, and in the south of England only on the following day.

Temperature was from 1° to 2° below the mean in all districts. The highest readings occurred mostly on June 28th in Scotland and the north of Ireland, but on the 29th or 30th over England. In the "Grazing Districts" the thermometer scarcely touched 70°, but in Scotland N. and E. it rose to 75°, in the Midland Counties and England S. to 76°, and in England N.E. to 77°. The lowest readings occurred at various times in the earlier half of the week, and were somewhat unusual for the time of year, the sheltered thermometer falling below 40° in many parts of the United Kingdom. In Scotland N. it reached 36°, while in Scotland E. (at Braemar) it fell to 32°. On the surface of the grass slight frost occurred at several of the Scotch stations on the nights of the 26th and 27th June.

Rainfall was less than the mean in all districts excepting England E. and the Midland

Counties, the deficit being considerable in Scotland and the north of Ireland.

Bright Sunshine.—Excepting in England S.W., where there was a slight excess, and in Ireland S. where there was a deficiency, the amount agreed pretty closely with the mean. The percentage of the possible duration ranged from 52 in England S.W., 45 in the Channel Islands, and 41 in England S. to 28 in Scotland N. and Ireland S.

Barometer and Wind.—At the commencement of the week cool Northerly winds were experienced in the rear of a depression which had advanced over England from the northward, and which afterwards moved away to the south-eastward and dispersed. After June 27th a large anticyclone spread over our Islands from the Atlantic, but this soon receded southwards, while depressions began to skirt our extreme northern coasts, their secondaries advancing eastwards directly across the United Kingdom. The wind consequently backed to the Westward, but remained light or moderate in force in nearly all districts. The small secondary system which passed across Ireland and England on the night of July 1st was well defined and moved eastwards with considerable rapidity.

II.—DATA from which the SUMMARY on page 151 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sunburgh Head	59	42	56.1	46.6	51.0	- 0.3	63	0	2	0.09	- 0.39	*	*	*	*
	Stornoway	62	45	58.6	47.3	52.3	- 0.6	74	0	3	0.17	- 0.49	30.9	- 11.5	25	- 9
	Wick	64	39	60.3	46.6	53.0	- 0.8	77	0	2	0.30	- 0.20	*	*	*	*
	Lairg	75	36	63.9	45.7	54.2	- 0.1	85	0	2	0.10	- 0.48	*	*	*	*
	Glencarron	66	45	59.5	48.5	53.6	- 1.0	81	0	5	0.66	- 0.51	*	*	*	*
	Fort Augustus	72	38	62.4	48.9	55.2	- 1.1	92	0	4	0.42	- 0.21	33.9	+ 3.9	28	+ 4
	Fort William	66	42	62.1	49.5	55.4	- 0.6	94	0	4	0.51	- 0.51	38.5	- 2.5	32	- 3
1. SCOTLAND, E.	Nairn	71	36	65.1	46.7	55.3	- 0.8	93	0	2	0.09	- 0.33	*	*	*	*
	Aberdeen	70	38	63.3	48.1	55.2	- 0.5	92	0	4	0.17	- 0.25	45.4	+ 0.9	37	+ 1
	Braemar	73	32	63.1	43.3	52.5	- 1.2	74	0	2	0.06	- 0.62	43.5	+ 2.7	36	+ 3
	Ochertyre	75	38	67.4	47.1	56.5	- 0.7	102	0	2	0.13	- 0.46	*	*	*	*
	Leith	73	42	66.0	50.3	57.6	+ 0.1	109	0	2	0.12	- 0.33	*	*	*	*
2. ENGLAND, N.E.	Marchmont	69	40	61.4	44.3	52.3	- 4.4	72	0	3	0.24	- 0.36	41.8	+ 0.7	35	+ 1
	Alnwick Castle	74	40	64.3	48.0	55.6	- 0.2	95	0	3	0.12	- 0.33	*	*	*	*
	Durham	77	39	63.3	45.9	54.0	- 3.5	84	0	4	0.23	- 0.23	32.9	- 5.1	28	- 4
	Shields	73	44	62.0	49.4	55.3	- 1.1	93	0	2	0.06	- 0.40	*	*	*	*
	Scarborough	73	43	61.8	47.2	54.0	- 3.7	84	0	5	0.45	- 0.03	45.2	?	38	?
3. ENGLAND, E.	York	73	43	66.0	48.0	56.4	- 2.0	101	0	6	0.29	- 0.24	44.0	+ 5.4	37	+ 5
	Spurn Head	70	48	62.9	52.4	57.3	- 0.6	107	0	4	0.48	+ 0.13	*	*	*	*
	Hillington	73	43	67.3	49.4	57.7	- 1.4	110	0	4	0.74	+ 0.22	43.0	- 0.5	38	0
	Yarmouth	67	49	63.1	51.9	57.1	- 1.4	106	0	4	1.03	+ 0.57	*	*	*	*
	Geldeston	72	46	66.1	51.0	58.0	- 0.7	112	0	4	0.92	+ 0.49	37.4	- 9.8	33	- 8
4. MIDLAND COUNTIES	Cambridge	74	42	69.0	49.3	58.5	- 1.7	116	0	4	0.18	+ 0.66	46.0	+ 2.0	40	+ 2
	Rothamsted	71	44	65.9	50.5	57.7	- 1.4	110	0	5	0.58	+ 0.06	42.8	- 1.9	37	- 1
	Bawtry (Hesley Hall)	72	39	67.3	46.0	55.9	- 3.2	97	0	4	0.25	- 0.28	*	*	*	*
	Loughborough	76	42	69.6	47.7	57.9	- 2.3	111	0	4	0.53	+ 0.03	*	*	*	*
	Stamford (Duddington)	72	40	67.7	47.7	57.0	- 2.4	105	0	3	0.70	+ 0.28	*	*	*	*
	Cheddle	67	43	64.2	47.4	55.2	- 1.4	92	0	6	0.55	- 0.15	*	*	*	*
	Shirley (near Solihull)	70	42	66.3	47.5	56.3	- 2.6	100	0	4	0.80	?	*	*	*	*
	Churchstoke	71	37	65.7	45.9	55.1	- 1.9	92	0	4	1.02	+ 0.52	44.2	+ 1.7	38	+ 1
5. ENGLAND, S.	Hereford	71	44	65.9	50.5	57.7	- 1.4	110	0	5	0.58	+ 0.06	42.8	- 1.9	37	- 1
	Cirencester	72	40	67.0	46.6	56.1	- 2.0	99	0	4	0.58	+ 0.02	42.6	- 0.9	37	0
	Oxford	72	46	68.6	50.0	58.7	- 1.1	117	0	4	0.42	- 0.08	48.3	+ 5.0	42	+ 4
	London	74	48	69.0	51.4	59.6	- 1.8	123	0	4	0.33	- 0.15	40.7	+ 0.5	35	0
	North Foreland	70	50	64.9	53.1	58.6	+ 0.1	116	0	3	0.20	?	*	*	*	*
	Cranley	71	40	67.1	49.2	57.5	- 2.8	109	0	4	0.50	?	*	*	*	*
	Dungeness	74	49	65.4	53.6	59.1	- 0.4	120	0	3	0.16	- 0.17	*	*	*	*
	Hastings (St. Leonards)	72	50	65.5	53.0	58.8	- 0.5	118	0	3	0.27	- 0.11	50.4	- 0.6	44	- 1
	Southampton	76	48	69.2	52.1	60.0	- 0.7	126	0	5	0.16	- 0.29	51.1	+ 3.4	45	+ 3
6. SCOTLAND, W.	Hurst Castle	72	49	66.4	53.3	59.4	- 0.5	122	0	3	0.34	- 0.10	*	*	*	*
	Shaftesbury	68	46	64.7	48.8	56.2	- 1.4	99	0	5	0.43	- 0.19	*	*	*	*
	Laudale (Loch Sunart)	69	42	62.7	49.9	55.9	- 0.8	97	0	4	0.61	- 0.48	*	*	*	*
	Glasgow	69	45	62.1	50.7	56.0	- 0.7	98	0	4	0.43	- 0.16	34.0	- 4.2	28	- 3
	Ardrossan	67	45	61.9	49.7	55.4	- 1.6	94	0	4	0.21	- 0.29	*	*	*	*
	Glenlee	69	41	63.9	46.3	54.4	- 2.1	87	0	4	0.27	- 0.43	*	*	*	*
	Gilcrux (Cumberland)	64	47	62.1	49.5	55.4	- 1.7	94	0	5	0.34	?	34.9	?	29	?
7. ENGLAND, N.W.	Douglas (Isle of Man)	65	45	63.0	49.5	55.8	- 0.6	97	0	1	0.08	- 0.40	47.4	- 3.2	40	- 3
	Stonyhurst	66	42	62.3	47.7	54.5	- 3.2	88	0	4	0.38	- 0.36	39.7	- 3.8	34	- 3
	Blackpool	68	42	64.5	50.1	56.8	- 1.5	104	0	3	0.40	- 0.06	42.7	- 1.3	36	- 1
	Manchester (Prestwich)	68	43	63.7	47.0	54.8	- 2.6	90	0	3	0.47	- 0.20	35.5	?	30	?
	Liverpool Obs. (Bidston)	66	49	62.7	52.0	57.0	- 1.8	105	0	5	0.54	+ 0.09	*	*	*	*
	Llandudno	66	50	63.1	52.1	57.2	- 1.3	106	0	4	0.65	+ 0.23	41.9	- 2.3	36	- 2
	Holyhead	64	48	60.7	50.7	55.4	- 2.6	94	0	3	0.43	+ 0.01	*	*	*	*
8. ENGLAND, S.W.	Llandovery	70	38	67.0	45.9	55.8	- 2.4	97	0	4	1.15	+ 0.47	*	*	*	*
	Pembroke	62	50	59.7	53.1	56.2	- 1.3	99	0	1	0.25	- 0.15	65.0	+ 10.3	57	+ 11
	Clifton	68	43	66.5	50.6	58.0	- 1.2	112	0	3	0.48	0.00	*	*	*	*
	Arlington (N. Devon)	67	45	64.3	49.4	56.3	- 1.1	100	0	4	1.15	+ 0.39	*	*	*	*
	Cullompton	71	43	67.8	49.8	58.2	- 1.4	113	0	3	0.07	- 0.60	46.6	+ 1.0	41	+ 1
	Falmouth	66	47	62.9	52.3	57.2	- 1.4	106	0	2	0.11	- 0.53	57.9	+ 4.9	51	+ 6
	Plymouth	66	44	63.4	51.4	57.0	- 3.3	105	0	3	0.12	- 0.31	61.1	+ 13.9	54	+ 12
9. IRELAND N.	Prawle Point	70	49	62.9	51.9	57.0	- 0.6	105	0	4	0.51	+ 0.16	*	*	*	*
	Malin Head	64	45	58.3	51.6	54.6	- 1.3	88	0	3	0.10	?	*	*	*	*
	Londonderry	70	43	64.3	50.1	56.7	- 0.9	103	0	4	0.12	- 0.38	*	*	*	*
	Edenfel (Omagh)	66	40	61.1	48.7	54.5	- 1.8	88	0	2	0.10	- 0.45	*	*	*	*
	Belmullet	63	47	59.9	50.9	55.1	- 2.1	92	0	5	0.45	- 0.48	*	*	*	*
	Markree Castle	64	45	60.9	49.8	55.0	- 0.6	91	0	4	0.19	- 0.51	38.0	- 0.2	32	- 0
	Armagh	66	39	63.0	48.0	55.0	- 2.1	91	0	2	0.07	- 0.57	32.0	- 8.4	27	- 7
	Donaghadee	65	40	62.9	49.9	56.0	- 0.8	98	0	3	0.09	- 0.32	*	*	*	*
10. IRELAND, S.	Edgeworthstown	67	41	64.7	48.6	56.1	- 1.3	99	0	5	0.43	- 0.09	*	*	*	*
	Dublin	69	46	64.9	52.4	58.2	- 1.3	113	0	3	0.32	- 0.05	41.0	- 3.0	35	- 2
	Parsonstown	67	46	63.7	49.9	56.3	- 1.3	100	0	4	0.96	+ 0.51	27.7	- 10.6	24	- 10
	Kilkenny	67	40	63.4	49.6	56.0	- 2.2	98	0	3	0.53	0.00	*	*	*	*
	Roche's Point	67	49	64.4	52.1	57.8	- 1.0	111	0	3	0.09	- 0.59	*	*	*	*
	Valencia	61	45	59.7	51.9	55.5	- 2.4	95	0	5	0.63	- 0.29	28.0	- 17.0	24	- 15
	Killarney	68	43	62.7	51.7	56.8	- 0.5	104	0	3	0.21	?	*	*	*	*
CHANNEL ISLANDS	Foynes	63	46	60.9	52.0	56.1	- 1.2	99	0	3	0.61	?	*	*	*	*
	Scilly (St. Mary's)	66	51	62.7	54.1	58.1	- 0.4	113	0	5	0.42	+ 0.02	40.2	?	36	?
	Jersey	68	47	64.1	53.7	58.5	- 2.0	116	0	4	0.13	- 0.25	52.7	- 2.3	47	- 2

Stations marked *all* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 26th June.

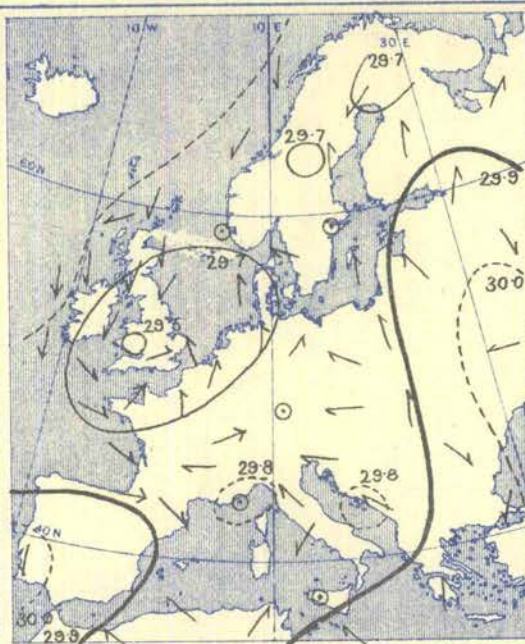
Temperature and Weather.

8 a.m.

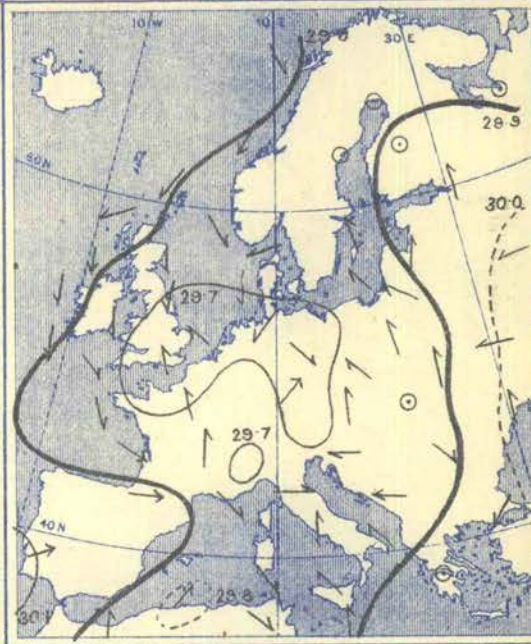


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy and showery over England, and rainy at many of the French and German stations, as well as at Copenhagen and St. Petersburg. Fine over the greater part of Ireland and Scotland, and also over Scandinavia, Austria, Italy, Greece, and the central and southern parts of Russia. Showers falling later in most parts of our Islands, and heavy rain at many of the Continental stations. Thunderstorms occurring over England and also in the south of France.

Temperature fallen in France, but changed very irregularly elsewhere. Morning readings highest, 82° at Trieste and Athens, 78° at Patras, and 77° at Lesina, La Calle and Aumale; above 65° in many parts of southern Europe. Lowest, 48° at Bodø and Haparanda, 50° at Sumburgh Head, and 52° at Stornoway and Wick, as well as at Lyons. Rising during day to between 60° and 65° in most parts of the United Kingdom and to 67° at Loughborough and Ardrossan. Exceeding 70° in Spain and the south of France, exceeding 80° in Austria and Italy, and reaching 91° at Brindisi.

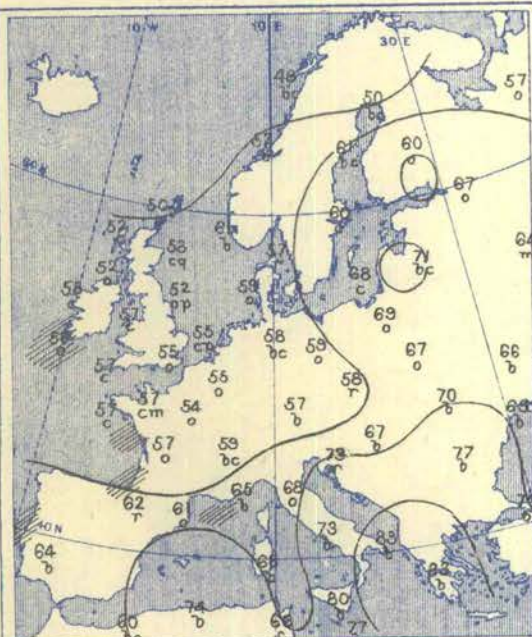
Wind light to fresh from the Northward in the west and north of our Islands and the west of Norway, and from the Westward over the Channel and Bay of Biscay; light from the Southward over central France, the Netherlands, Denmark and the south-east of England, Southerly or South-Westerly over Sweden and northern Russia; variable in Austria and the south of Russia; Easterly to Northerly in Italy; Southerly in Greece. Subsequently shifting to the Southward over Italy; no important change occurring elsewhere.

Barometer highest, 30.0 ins. and upwards over Portugal and also over the Black Sea and the south of Russia. Lowest, 29.6 ins. and less in a depression over England; 29.8 ins. and less in three other disturbances—one lying over central Sweden, another over the Gulf of Genoa, and the third over the central parts of the Adriatic. English depression subsequently moving south-eastwards and partially filling up; disturbances over northern and southern Europe also beginning to disperse.

Monday, 27th June.

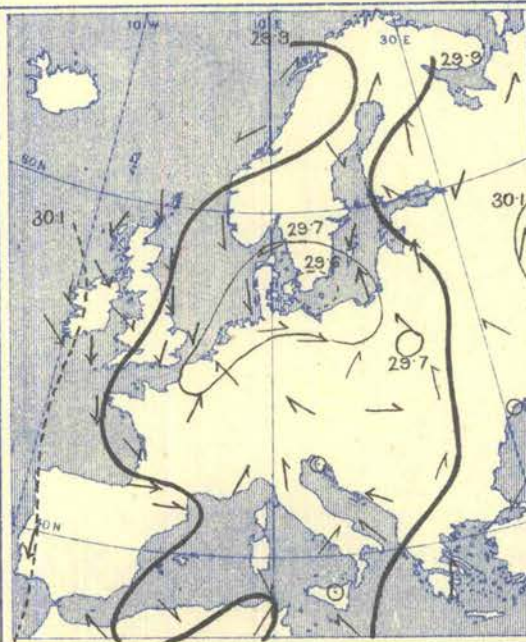
Temperature and Weather.

8 a.m.

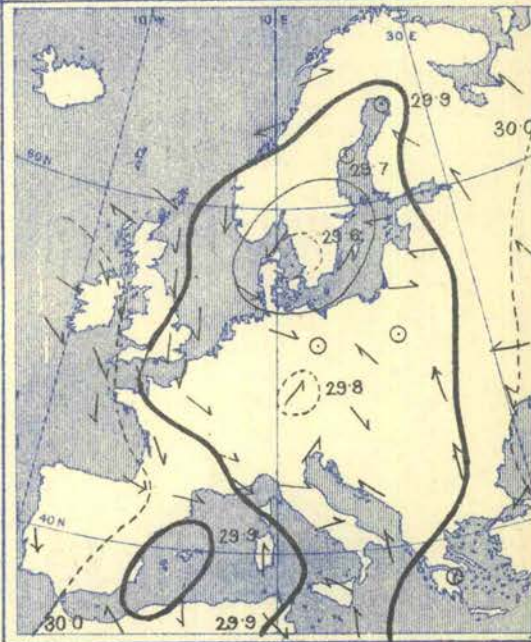


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands, with showers in the east of England. Fine in Scandinavia, and also in many parts of southern Europe, but dull in the more central parts of the Continent, with rain in several isolated places. Showers falling later over nearly the whole of England, and heavy rain at several of the Continental stations; thunderstorms occurring at Prawle Point and Hurst Castle, and also in the south-west of France.

Temperature changed very irregularly over western and southern Europe, fallen in the central countries, risen over Russia. Morning readings highest, 88° at Brindisi and Patras, 82° at Sfax, and 81° at Athens; above 70° at many of the Mediterranean and Adriatic stations. Lowest, (1) 43° at Bodø, and 50° at Haparanda, Sumburgh Head and Wick; (2) 51° at Belfort and Limoges, and 54° at Paris. Daily maxima below 60° on most parts of our northern coasts, and below 65° at all our own stations excepting Jersey. Thermometer exceeding 70° in the south of France, and exceeding 80° in Austria and Italy. The highest reading of all being 99° at Brindisi.

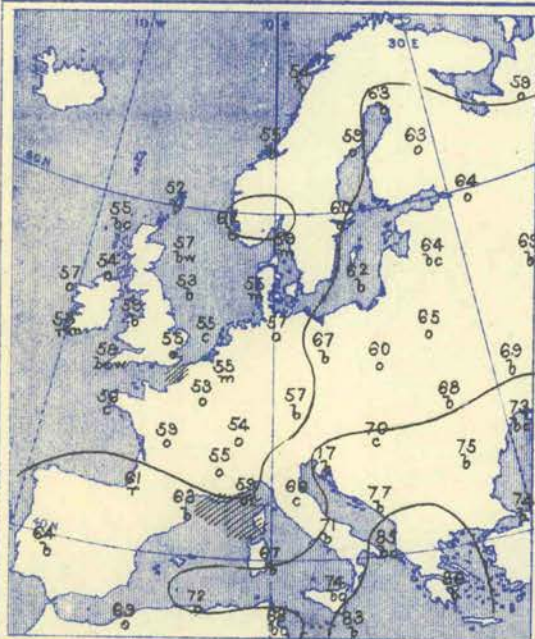
Wind light to fresh from the Northward over our Islands, and also on the Portuguese coasts, and from the North-Westward in the west of France. Light from the South-Westward over northern Italy, central France, Germany, and the Netherlands; Southerly or South-Easterly over Russia and the Baltic; North-Easterly in Norway and Denmark. Southerly in Greece, but variable over the Mediterranean generally. Subsequently backing to the North-Westward in Ireland. Considerable increase of wind from North and North-East occurring in the west of Norway.

Barometer highest, 30.1 ins. and upwards in a large anticyclone lying to the west of our Islands and Portugal, and also in another system over central Russia. Lowest, 29.6 ins. and less in a complex depression with its centre over the southern parts of the Baltic. Depression subsequently moving slowly northward; new disturbance approaching our extreme west coasts at night.

Tuesday, 28th June.

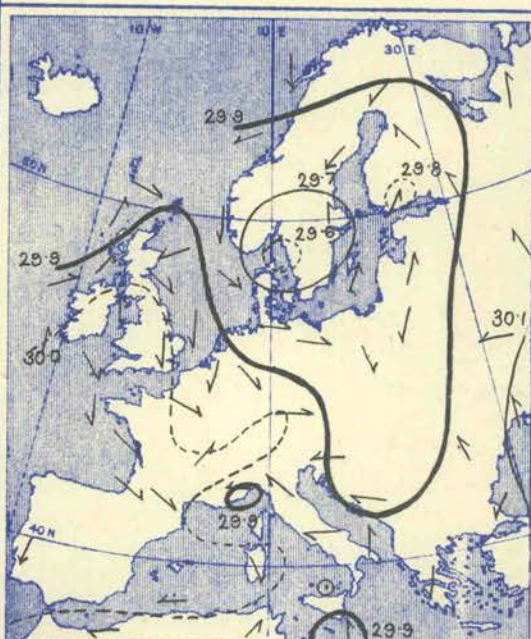
Temperature and Weather.

8 a.m.

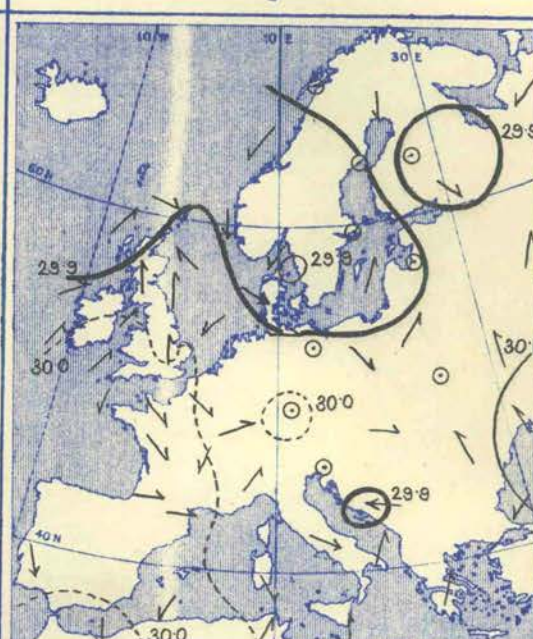


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over Great Britain, and the west of Norway, as well as in most parts of central and southern Europe. Cloudy or dull in Ireland and France, with rain at Valencia and Biarritz; dull also over Denmark, the south of Sweden and Russia, with rain at Fano and Karlstad. A little rain falling later over the whole of Ireland and the west of Scotland, and larger quantities at many of the Continental stations. Thunderstorm occurring at Biarritz.

Temperature risen in Ireland, Scotland and the west of Norway, changed very irregularly elsewhere. Morning readings highest, 86° at Athens, 85° at Patras and Brindisi, and 83° at Malta; above 70° over south-eastern Europe generally, and above 60° in Russia and Sweden. Lowest, 51° at Loughborough, 52° at Sumburgh Head, and 53° at Shields, York, Dungeness, the North Foreland and Paris. Rising later to between 65° and 70° in many parts of the United Kingdom, and to 71° at Naïm; exceeding 70° over Spain and the south of France, and exceeding 80° in Austria and Italy, the highest reading of all being 100° at Brindisi.

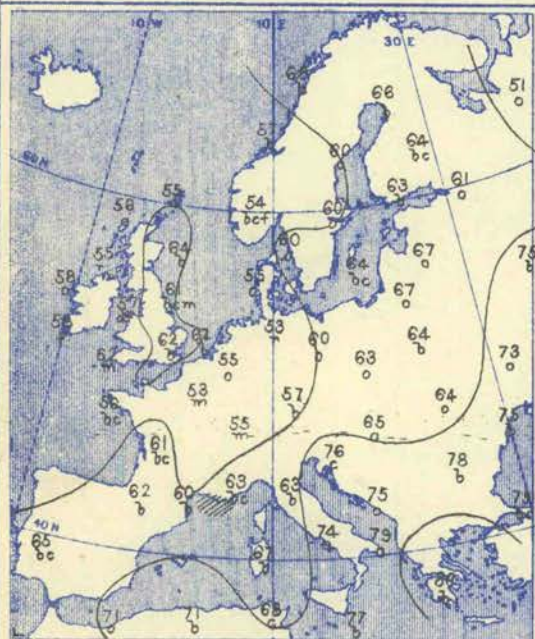
Wind light from the Southward on our western and extreme northern coasts, but from the Northward in the east and south, and from the North-Westward in France. Moderate to strong from the North-Eastward over the northern parts of Scandinavia, from the Northward in the south of Norway, from the Westward over Denmark and Germany, and from the Southward in the south of Sweden. Variable over Italy and the south of Russia. Subsequently veering to the South-Westward on our western coasts, and backing to the same quarter in most other parts of the United Kingdom.

Barometer highest, 30.1 ins. and upwards in an anticyclone lying over the Black Sea, and the south of Russia; 30.0 ins. and upwards in another system over England, France and Spain, and the western parts of the Mediterranean. Lowest, 29.6 ins. and less in a depression with its centre over the Kattegat; 29.9 ins. and less in a shallow disturbance off the north-west of Scotland. No important change occurring later, but depression over the Kattegat partially filling up.

Wednesday, 29th June.

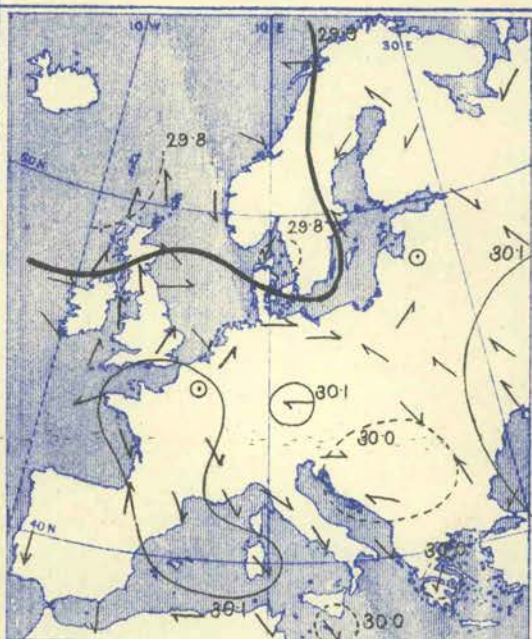
Temperature and Weather.

8 a.m.

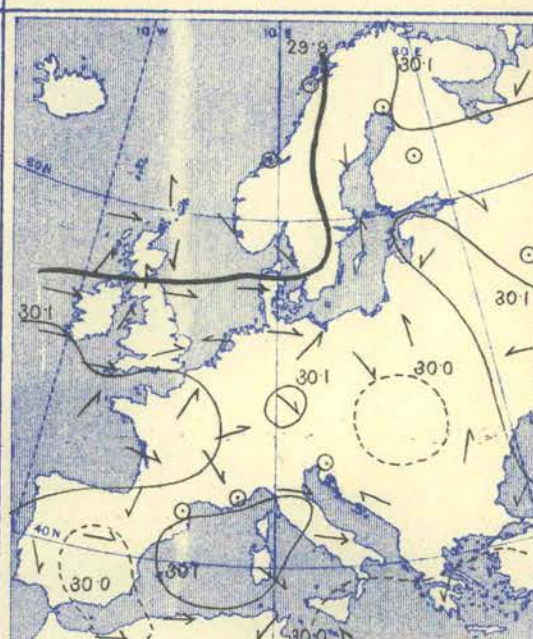


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over England, the east of Scotland, and the western and southern parts of the Continent generally; dull on our own western coasts, with fog, mist or rain in several places. Cloudy or dull in most of the northern and central countries, with rain at Karlstad and Cuxhaven. Slight rain falling later in many parts of western and central Europe, and a large quantity (1.4 ins) at Nice, and Lemberg, with a thunderstorm at the former station. Temperature risen in our Islands, changed very irregularly elsewhere. Morning readings highest, 86° at Athens and Patras, 79° at Brindisi, and 78° at Hermanstadt; above 70° over south-eastern Europe generally; above 65° over eastern and central Scotland, and also in the north of Scandinavia. Lowest, (1) 50° at Limoges, and 53° at Paris and Cuxhaven; (2) 54° at Skudesnaes, and 55° at Sumburgh Head and Malin Head. Rising during day to 70° and upwards in many parts of Great Britain, France and Germany, to 76° at Loughborough, and to 77° at Perpignan. Exceeding 80° in Spain, Austria and Italy, and reaching 95° at Hermanstadt.

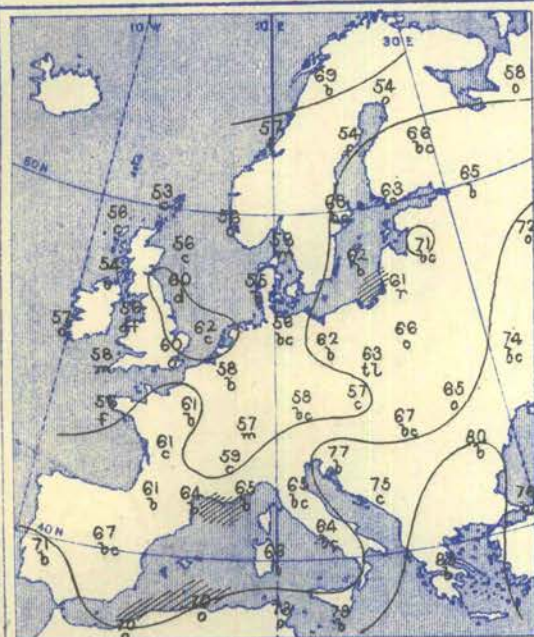
Wind light from between South and West over the greater part of our Islands, but North-Westerly in the south of Ireland. Light from the Westward over Denmark, Germany and Austria, and from the Southward or South-Eastward over the central and southern parts of Russia; Easterly or North-Easterly over the northern parts of Russia and Scandinavia; Northerly in the south of Norway; North-Westerly over Italy, and the southern parts of France; Northerly or North-Easterly in Greece. No important change occurring over western Europe later.

Barometer highest, 30.2 ins. and upwards over the Black Sea and the south of Russia; 30.1 ins. and upwards over France and the neighbouring parts of the Mediterranean. Lowest, 29.8 ins. and less in two shallow depressions, one lying off the north-west of Scotland, and the other over the Kattegat; small secondary system reported over the St. George's Channel. Depression off our north-west coasts, and small secondary subsequently moving eastwards, and barometer rising a little in most parts of the United Kingdom.

Thursday, 30th June.

Temperature and Weather.

8 a.m.

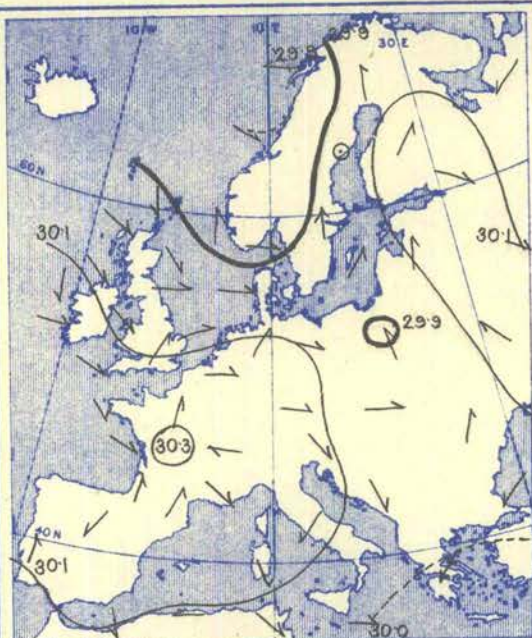


Weather in morning cloudy or dull over the United Kingdom generally, with fog or mist on several parts of our western and southern coasts, and slight rain at some of the English stations. Fine over the greater part of the Continent, but cloudy or foggy at many of the Scandinavian stations, with rain at Karlstad. Showers very general later in the east and south-east of England and the neighbouring parts of the Continent, with thunder at Spurn Head; steady rain falling in the west of Norway and large quantities in the Gulf of Finland. Thunderstorm occurring at Laghouat.

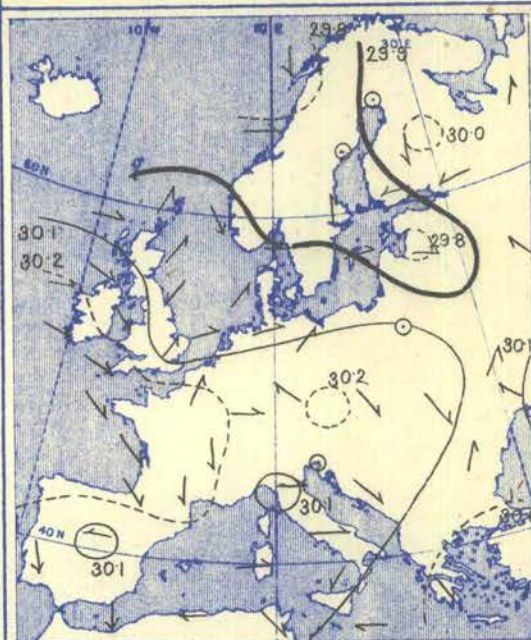
Temperature fallen decidedly in the north of our Islands and also in Sweden; changed irregularly elsewhere. Morning readings highest, 85° at Patras, 82° at Athens, 80° at Hermanstadt, and 79° at Malta; above 65° at some of the northern stations in Russia and Scandinavia. Lowest, (1) 50° at Limoges; (2) 53° at Sumburgh Head, and 54° at Wick, Malin Head and Donagadee; (3) 53° at Copenhagen and 54° at Haparanda and Hernösand. Rising during day to 70° and upwards in many parts of England, France and Germany; exceeding 80° over southern and south-eastern Europe, and reaching 90° at Madrid.

Barometer and Wind.

8 a.m.



6 p.m.



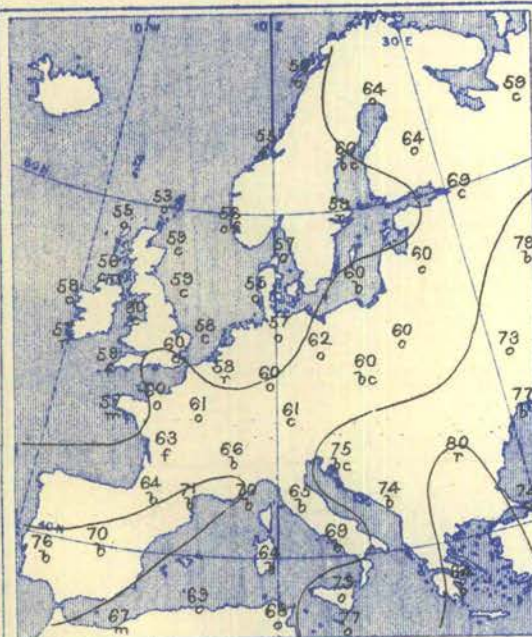
Wind light to moderate from the North-Westward in the west and north of our Islands, and from the West or South-West over the greater part of England, France, the Netherlands, Denmark, Germany and Austria, Southerly in Sweden; variable in Norway. Strong from the North-Eastward in Greece, with a gale at Athens; variable over Italy and the Spanish Peninsula. Subsequently veering to the North-Westward in the west of France; no important change occurring elsewhere.

Barometer highest, 30.2 ins. to 30.3 ins. and upwards in an anticyclone extending from the Atlantic over the Bay of Biscay, France and south Germany; 30.1 ins. to 30.2 ins. in another system over Russia. Lowest, 29.8 ins. and less in a shallow depression off the west of Norway, 29.9 ins. and less in a small disturbance over Poland. Shallow secondary depressions passing eastwards across England later; disturbance over Poland moving north-eastwards and partially filling up.

Friday, 1st July.

Temperature and Weather.

8 a.m.



Weather in morning fine over the eastern and central parts of Great Britain, and also over the central and southern parts of the Continent generally. Cloudy or dull in the west of our Islands, with fog at Scilly, and rain at Valencia (Ireland); dull also over the greater part of northern Europe, with fog on the Norwegian coasts, and rain at Stockholm and Copenhagen. Steady rain falling later over England, the south of Ireland, and the neighbouring parts of the Continent, and showers in the north of Scotland.

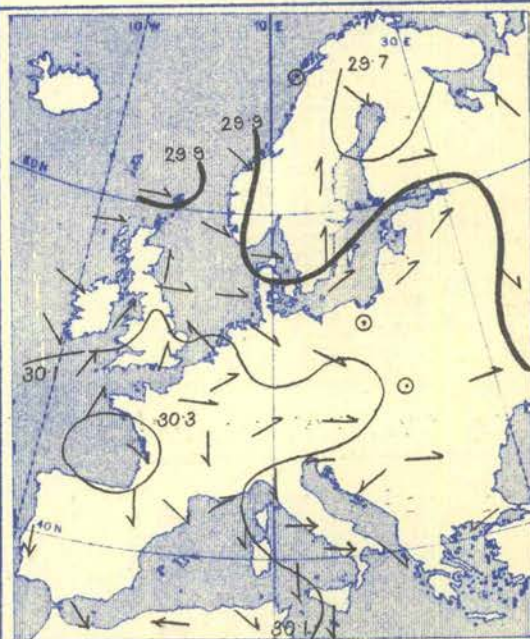
Temperature risen in France and Spain, fallen in Austria, changed rather irregularly elsewhere. Morning readings highest, 84° at Athens, 80° at Hermanstadt, 79° at Moscow, and 78° at Patras; above 70° in many parts of southern and eastern Europe, and above 60° over the greater part of the Continent, and also in the extreme south of England. Lowest, 53° at Sumburgh Head, and 55° at Christiansund, Fanö, Stornoway, Ardrossan, Loughborough, and Roches Point. Rising during day to 70° or slightly above it at some of the inland English stations. Exceeding 80° in most parts of southern Europe, and reaching 91° at Oporto and Lisbon.

Barometer and Wind.

8 a.m.



6 p.m.



Wind light to moderate from the Westward or North-Westward over the eastern and central parts of Great Britain, and also over France, and the eastern shores of the North Sea; South-Westerly over Germany and the Baltic, Southerly over the Gulf of Finland; calm in the north of Scandinavia. South-Westerly on most parts of our western coasts, and South-Easterly in the south of Ireland. Light from the Northward over Italy and the Adriatic; Easterly over the Spanish Peninsula. Subsequently backing to the South-Westward over England, but veering to the North-Westward in the west of Ireland.

Barometer highest, 30.3 ins. and upwards over France and the Bay of Biscay; 30.1 ins. and upwards in an anticyclone lying over the greater part of central and southern Europe, and embracing the whole of England and Ireland. Lowest, 29.7 ins. and less in a depression over Finland, 30.0 ins. and less in a shallow system over Greece and Asia Minor. Depression over Finland moving northwards later. New depression appearing off the north of Scotland, and small secondary system advancing eastwards rather quickly over Ireland and England.

Saturday, 2nd July.

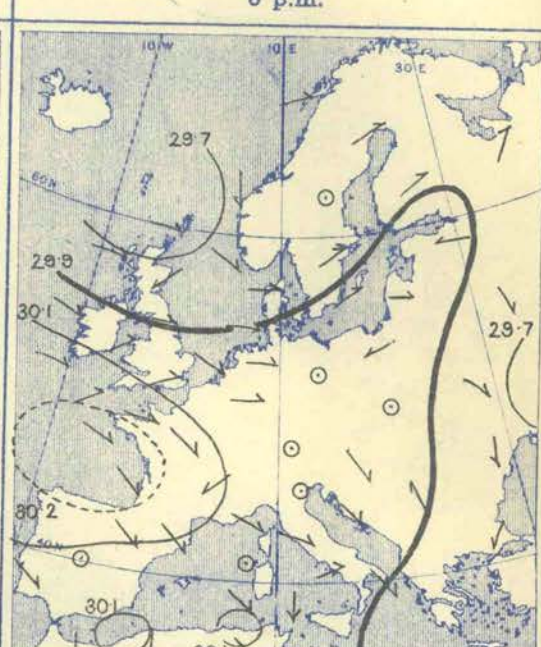
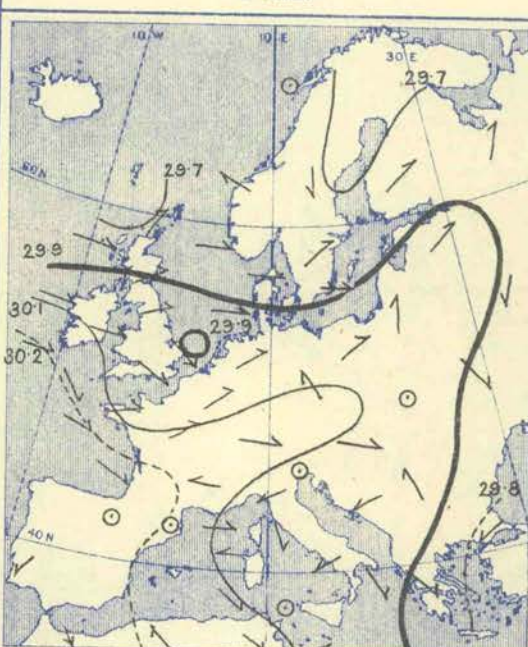
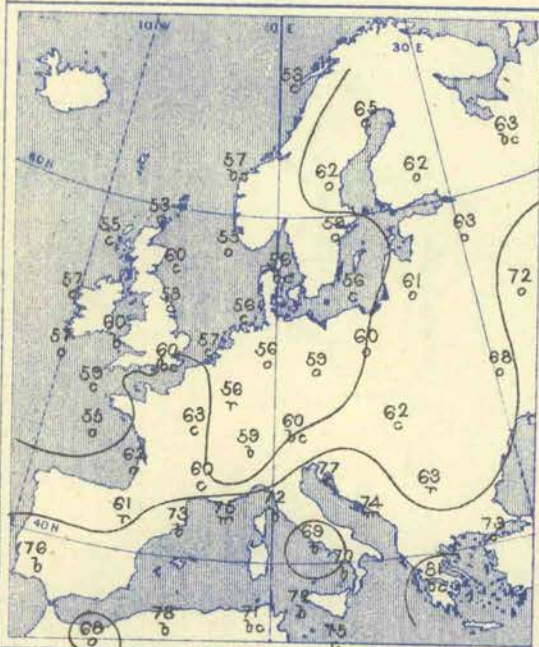
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather fine over the greater part of the United Kingdom, but rainy in the extreme south-east of England and also in the Netherlands. Fine over southern Europe generally, but cloudy in most other parts of the Continent, with rain at Breslau and also at Biarritz. Showers falling later over the northern parts of our Islands generally, and steady rain in Germany and also in the west of Norway. Thunderstorms occurring in the central and southern parts of Russia and also at Lagnouat.

Temperature changed rather irregularly. Morning readings highest, 85° at Oporto, 81° at Athens, 77° at Trieste and Brindisi, and 75° at Malta; above 70° in most parts of southern and eastern Europe. Lowest, 52° at Wick, 55° at Bodö, Sumburgh Head, Nairn, and Shields, and 54° at Münster. Rising during day to between 65° and 70° in many parts of the United Kingdom, to 73° in London and to 74° at Dungeness. Exceeding 80° in many parts of southern Europe, the highest readings of all being 86° at Madrid and 92° at Lisbon.

Wind light to fresh from the Westward over Ireland and the northern parts of Great Britain, but from the North-Westward or Northward over the eastern, central and southern parts of England; South-Westerly or Southerly over the Netherlands and the north-east of France. Westerly or South-Westerly over Denmark, the Baltic, northern Russia and the south of Scandinavia, with a gale at Wisby; variable over the northern parts of Scandinavia, Northerly or North-Easterly over the greater part of southern and eastern Europe, but calm in the south of France. Subsequently backing to the Westward or South-Westward over England; no important change occurring elsewhere.

Barometer highest, 30.2 ins. and upwards in an anticyclone extending from the Atlantic over the south-west of Ireland, the Bay of Biscay, the Spanish Peninsula and the south-west of France. Lowest, 29.7 ins. and less in two depressions—one lying off the north of Scotland and the other over the Gulf of Bothnia; 29.9 ins. and less in a small secondary system off the Norfolk coasts. Scotch depression spreading south-eastwards later; secondary disturbance moving eastwards and filling up.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isolars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: → = a gale; →→ = a fresh to strong breeze; →→→ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week barometrical pressure was high both over Russia and the Spanish Peninsula, the weather in the more western countries being influenced by a large depression which had advanced over England from the northward. The main depression soon moved away to the south-eastward and dispersed; and the weather in our Islands, which was at first showery and thundery, showed a gradual improvement, especially in the west and north. Over northern and central Europe, however, the conditions were affected by a new disturbance which was developed over the southern parts of the Baltic, and which afterwards travelled slowly northwards, the passage of the depression being attended by heavy falls of rain in many parts of Germany, Denmark, and the south of Scandinavia. The barometer had in the meantime risen steadily in the west, and by the 28th June an anticyclone had spread from the Atlantic over our Islands, France and Spain, the wind over the United Kingdom backing gradually from the Northward to the Westward and South-Westward. Later on the anticyclone moved southward, while several shallow depressions appeared in our neighbourhood, the larger and more important systems being observed in the far north, and their secondaries further south, the latter moving eastwards across the United Kingdom and North Sea, and producing occasional falls of rain over nearly the whole of western and central Europe, with thunder in a few places. At the close of the week these changes were still in progress, but the intervals of fine weather were sufficiently long to enable the thermometer to reach its normal height for the time of year.

Over southern and south-eastern Europe the weather throughout the week was almost continuously fine and warm, the maximum readings of the thermometer being usually above 80°, and in some cases above 90°. Quite at the close of the time, however, thunderstorms and heavy rain set in over the south of Russia.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 152.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	37.7	?	30	?	WESTBOURNE (Emsworth)	48.8*	+ 1.6	43*	+ 1
STRATHPEFFER SPA	34.0	- 4.8	27	- 4	WATERGATE (Emsworth)	36.0	?	32	?
EDINBURGH	38.6	+ 4.1	32	+ 4	BRIGHTON	45.1	- 6.7	40	- 6
MORPETH	36.0	?	30	?	EASTBOURNE	59.4	+ 3.5	47	+ 2
NEWCASTLE-ON-TYNE					VENTNOR HOSPITAL	53.0	?	46	?
OSWALDKIRK (Yorkshire)					SOUTHPORT	44.3	?	38	?
SHEFFIELD	40.1	?	35	?	COLWYN BAY	46.5	?	40	?
WORKSOP	37.6	+ 2.5	22	+ 1	TENBY	63.3*	+ 9.1	55*	+ 8
THURCASTON (Leicestershire)	46.8	+ 9.0	40	+ 7	NEWQUAY				
HOLLESLEY BAY	47.5	?	41	?	TORQUAY	57.4*	+ 4.4	51*	+ 3
PLUMSTEAD COMMON					GUERNSEY	58.4*	+ 2.9	52*	- 3
MARGATE	40.3	- 0.3	35	- 2					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.VOL. XV. No. 27.]
Third Series.

WEEK ENDING SATURDAY, JULY 9TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE
UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 153.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1893.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	74	39	60.4	46.6	53.0	2 below	Day-deg. 77	Day-deg. - 1	Day-deg. 0	Day-deg. 0	Day-deg. 859	Day-deg. +120	Day-deg. 395	Day-deg. -228
	1. SCOTLAND, EAST	77	37	65.0	46.9	55.3	1 below	93	- 3	0	0	1007	+ 80	427	-222
	2. ENGLAND, N.E.	74	44	64.3	49.8	56.5	2 below	102	0	0	0	1054	+113	333	-216
	3. ENGLAND, EAST	76	43	65.5	50.6	57.5	2 below	109	- 5	0	0	1192	+ 40	410	-207
	4. MIDLAND COUNTIES	74	41	66.9	48.6	57.1	2 below	106	- 7	0	0	1205	+ 14	404	-215
	5. ENGLAND, SOUTH	79	44	69.1	51.5	59.7	1 below	124	+ 3	0	0	1328	+ 64	234	-243
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	73	41	63.4	49.0	55.8	2 below	97	0	0	0	1109	+117	245	-217
	7. ENGLAND, N.W.	70	44	64.1	51.2	57.2	2 below	106	- 1	0	0	1157	+105	215	-244
	8. ENGLAND, S.W.	78	37	67.6	50.6	58.5	1 below	116	+ 4	0	0	1305	+ 84	205	-156
	9. IRELAND, NORTH	76	37	64.2	48.3	55.7	1 below	96	- 4	0	0	1180	+ 94	227	-168
	10. IRELAND, SOUTH	77	39	67.2	50.2	58.1	0 (average)	113	+ 4	0	0	1400	+137	165	-134
	-CHANNEL ISLANDS.	72	49	66.6	54.6	60.2	0 (average)	127	+ 6	0	0	1571	+193	55	- 93

DISTRICTS. (See p. 158.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1893.			For the Week.				From January 2nd, 1893.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10ths of in. 7	10ths of in. 0 (average)	138	+18	Ins. 29.5*	+ 6.9	35		28	0	681	+20	28	+ 1
	1. SCOTLAND, EAST	3	4	2 less	105	+ 8	12.6	- 1.6	55	+17	46	+14	744	+ 8	31	0
	2. ENGLAND, N.E.	3	2	4 less	97	+ 6	10.1	- 1.5	48	+ 8	40	+ 7	685*	-20	30	0
	3. ENGLAND, EAST	2	1	5 less	89	+ 1	10.2	- 1.3	44	0	39	0	772	-77	32	- 3
	4. MIDLAND COUNTIES	0	less than ½	5 less	87	0	9.1	- 3.7	52	+13	45	+11	745	- 2	32	0
	5. ENGLAND, SOUTH	0	—	5 less	83	0	9.8*	- 3.1	53	+ 7	47	+ 6	768	-73	34	- 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	3	4 less	120	+17	19.5	- 2.7	55	+13	46	+11	787	+44	34	+ 2
	7. ENGLAND, N.W.	1	1	5 less	100	+ 7	16.7	+ 2.1	55	+12	47	+10	832	+79	36	+ 4
	8. ENGLAND, S.W.	0	less than ½	6 less	95	+ 1	14.9	- 2.3	85	+35	75	+31	965*	+40	41	+ 2
	9. IRELAND, NORTH	2	1	6 less	127	+17	17.5	+ 0.7	50	+12	43	+11	758	+22	32	+ 1
	10. IRELAND, SOUTH	1	less than ½	6 less	97*	- 3	16.8	- 1.6	65	+26	56	+22	823	+ 2	35	0
	- CHANNEL ISLANDS.	1	1	4 less	107	+ 6	12.0	- 2.5	92	+42	83	+38	1032	-15	44	0

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this week was fine and dry in nearly all parts of the Kingdom. In the extreme north and north-west, however, unsettled, rainy conditions prevailed during the earlier half of the period.

Temperature was a little below the mean in almost all districts, but just equalled it in Ireland S. and the Channel Islands. The highest of the maxima, which were registered either on the 6th or 7th, ranged from 79° in England S. and 78° in England S.W., to 73° in Scotland W. and 72° in the Channel Islands. At the end of the week the daily maxima were very low over the eastern parts of England. The lowest of the minima were recorded during the earlier days of the week, and ranged from 37° in Scotland E., Ireland N., and England S.W., to 44° in England N.E., N.W., and S., and to 49° in the Channel Islands.

Rainfall just equalled the normal amount in Scotland N., but was less in all other districts. In most parts of England and Ireland the fall was extremely slight, and in several localities there was no rain at all.

Bright Sunshine exceeded the mean over the Kingdom as a whole, especially in England S.W. and the Channel Islands, but only just equalled it in Scotland N. and England E. The percentage of the possible duration ranged from 83 in the Channel Islands, 75 in England S.W. and 56 in Ireland S. to 47 in England S. and N.W., 39 in England E. and to 28 in Scotland N.

Barometer and Wind.—The distribution of pressure over all the more southern and western parts of the Kingdom was anticyclonic during the whole period, but the extreme northern districts were at first affected by depressions moving from the north-westward, and passing over Scandinavia towards the Baltic. Varying Westerly to North-Westerly and Northerly winds consequently prevailed very generally, and at times blew freshly or rather strongly on our northern and eastern coasts.

II.—DATA from which the SUMMARY on page 157 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	58	42	55.4	45.9	50.3	-1.6	58	0	3	0.21	-0.29	*	*	*	*
	Stornoway	64	45	57.9	46.6	51.9	-1.8	69	0	5	0.93	+0.25	25.0	-15.4	20	-13
	Wick	65	39	60.3	46.0	52.7	-1.9	75	0	3	0.30	-0.22	*	*	*	*
	Laig	74	40	64.3	45.5	54.3	-0.1	86	0	4	0.59	-0.01	*	*	*	*
	Glencarron	71	43	58.9	46.0	52.0	-2.9	70	0	4	1.96	+0.76	*	*	*	*
	Fort Augustus	65	39	62.5	47.0	54.2	-2.3	85	0	4	0.47	-0.21	34.6	+6.6	28	+6
	Fort William	74	44	63.4	49.0	55.7	-0.7	96	0	4	0.57	-0.52	47.6	+10.3	39	+7
1. SCOTLAND, E.	Nairn	67	37	63.4	46.0	54.1	-2.4	85	0	3	0.55	+0.06	*	*	*	*
	Aberdeen	73	45	64.0	48.9	55.9	-0.5	97	0	4	0.22	-0.27	60.2	+17.8	49	+14
	Braemar	69	38	61.9	45.5	53.1	-1.2	78	0	3	0.41	-0.27	43.5†	+5.0†	36†	+4†
	Ochertyre	77	42	69.1	46.9	57.2	-0.5	106	0	3	0.20	-0.45	*	*	*	*
	Leith	75	46	67.6	48.9	57.6	-0.5	109	0	3	0.44	-0.06	*	*	*	*
	Marchmont	69	41	64.0	45.4	54.1	-2.2	85	0	3	0.45	-0.21	61.0	+21.0	51	+18
2. ENGLAND, N.E.	Alnwick Castle	72	44	66.3	48.6	56.8	+0.3	104	0	4	0.35	-0.15	*	*	*	*
	Durham	74	45	65.5	49.2	56.8	-1.5	104	0	2	0.18	-0.35	49.6	+12.4	42	+10
	Shields	72	46	63.0	49.6	55.8	-1.2	97	0	2	0.17	-0.33	*	*	*	*
	Scarborough	72	45	62.3	48.8	55.1	-3.1	92	0	2	0.15	-0.38	39.5	?	34	?
	York	73	44	66.4	49.3	57.3	-1.9	107	0	2	0.02	-0.56	48.6	+10.9	42	+11
	Spurn Head	68	50	62.1	53.0	57.2	-1.5	106	0	3	0.05	-0.32	*	*	*	*
3. ENGLAND, E.	Hillington	74	47	65.5	50.8	57.6	-2.1	109	0	2	0.06	-0.54	39.4	-3.3	34	-3
	Yarmouth	69	48	62.6	52.3	57.1	-2.3	106	0	2	0.05	-0.46	*	*	*	*
	Geldeston	71	49	64.7	50.8	57.3	-2.1	107	0	2	0.08	-0.42	40.1	-6.2	35	-6
	Cambridge	76	43	68.0	49.7	58.2	-2.6	113	0	1	0.03	-0.51	46.8	+3.2	41	+3
	Rothamsted	72	45	66.6	49.4	57.4	-2.2	108	0	1	0.01	-0.56	49.1	+4.1	43	+4
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	73	42	67.4	47.4	56.7	-2.9	103	0	0	—	-0.57	*	*	*	*
	Loughborough	74	41	68.0	48.9	57.8	-2.9	111	0	0	—	-0.50	*	*	*	*
	Stamford (Duddington)	73	41	66.6	48.0	56.7	-3.7	103	0	0	—	-0.50	*	*	*	*
	Cheadle	68	43	62.6	48.8	55.2	-1.9	92	0	2	0.08	-0.64	*	*	*	*
	Shirley (near Solihull)	70	43	66.2	48.1	56.5	-2.9	102	0	0	—	?	*	*	*	*
	Churchstoke															
	Hereford															
	Cirencester	73	43	68.3	48.3	57.6	-1.1	109	0	0	—	-0.60	65.5	+23.1	57	+20
	Oxford	74	47	69.0	50.7	59.2	-1.2	120	0	0	—	-0.55	61.5	+18.9	54	+17
5. ENGLAND, S.	London	75	47	70.3	52.1	60.6	-1.3	130	0	0	—	-0.50	42.0†	+2.8†	37†	+3†
	North Foreland	75	47	65.0	52.9	58.5	-0.9	116	0	0	—	?	*	*	*	*
	Cranley	75	45	70.3	49.3	59.1	-2.0	120	0	0	—	?	*	*	*	*
	Dungeness	72	44	66.0	50.7	57.8	-2.4	111	0	0	—	-0.40	*	*	*	*
	Hastings (St. Leonards)	74	49	67.0	52.4	59.2	-0.6	120	0	0	—	-0.42	47.1	-3.1	42	-2
	Southampton	79	47	74.2	51.8	62.2	+0.9	141	0	0	—	-0.50	77.1	+30.1	68	+27
	Hurst Castle	75	49	71.3	52.7	61.4	+0.7	136	0	0	—	-0.48	*	*	*	*
	Shaftesbury	71	45	68.6	50.2	58.8	+0.6	118	0	0	—	-0.65	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	68	47	60.6	49.3	54.6	-2.5	88	0	5	1.18	+0.04	*	*	*	*
	Glasgow	73	45	64.3	49.7	56.5	-0.5	102	0	4	0.08	-0.56	53.7	+16.7	45	+15
	Ardrossan	66	47	61.3	50.6	55.6	-2.1	95	0	3	0.38	-0.16	*	*	*	*
	Glenlee	73	41	65.1	46.3	55.1	-2.1	92	0	2	0.03	-0.75	*	*	*	*
	Gilcrux (Cumberland)	70	44	63.9	48.5	55.7	-1.9	96	0	1	0.02	?	52.7	?	45	?
	Douglas (Isle of Man)	69	45	65.4	49.6	57.0	+0.2	105	0	0	—	-0.50	57.2	+8.2	49	+7
7. ENGLAND, N.W.	Stonyhurst	70	46	63.5	49.6	56.1	-2.2	99	0	2	0.06	-0.76	54.1	+12.1	46	+10
	Blackpool	70	45	65.8	51.8	58.3	-0.7	114	0	1	0.12	-0.38	49.2	+6.2	42	+5
	Manchester (Prestwich)	70	44	64.5	48.9	56.2	-1.8	99	0	2	0.11	-0.61	48.1	?	41	?
	Liverpool Obsy. (Bidston)	68	50	62.3	53.0	57.3	-2.2	107	0	0	—	-0.50	*	*	*	*
	Llandudno	66	48	64.4	52.1	57.8	-1.3	111	0	1	0.01	-0.47	62.4	+19.5	54	+17
	Holyhead	68	47	64.1	51.6	57.4	-1.1	108	0	0	—	-0.46	*	*	*	*
8. ENGLAND, S.W.	Llandovery	78	37	71.3	46.4	58.0	-0.6	112	0	0	—	-0.77	*	*	*	*
	Pembroke	67	47	61.9	52.3	56.8	-1.2	104	0	0	—	-0.45	90.5	+37.5	79	+34
	Clifton	73	49	68.6	53.4	60.4	+0.5	129	0	0	—	-0.52	*	*	*	*
	Arlington (N. Devon)	69	44	66.4	48.0	56.6	-1.3	102	0	0	—	-0.85	*	*	*	*
	Cullompton	75	41	71.1	47.2	58.3	-2.0	114	0	0	—	-0.71	78.3	+34.3	69	+30
	Falmouth	70	53	66.2	53.7	59.5	+0.3	123	0	1	0.03	-0.65	91.0	+39.0	81	+36
9. IRELAND N.	Plymouth	73	48	68.5	51.9	59.6	-1.2	123	0	0	—	-0.50	83.6	+37.4	75	+34
	Prawle Point	75	48	66.7	51.7	58.7	+0.2	117	0	0	—	-0.40	*	*	*	*
	Malin Head	61	50	57.9	52.0	54.7	-1.8	89	0	4	0.18	?	*	*	*	*
	Londonderry	76	44	66.5	48.5	56.9	-1.0	104	0	3	0.05	-0.54	*	*	*	*
	Edenfel (Omagh)	74	38	64.6	46.1	54.7	-1.8	89	0	0	—	-0.61	*	*	*	*
10. IRELAND, S.	Belmullet	66	42	62.3	49.4	55.4	-2.3	94	0	4	0.08	-0.61	*	*	*	*
	Markree Castle	69	37	64.5	47.1	55.2	-0.9	92	0	1	0.04	-0.71	50.2	+14.2	43	+13
	Armagh	72	38	66.0	45.2	54.9	-2.5	90	0	0	—	-0.68	50.1	+11.9	43	+10
	Donaghadee	72	42	64.3	50.3	56.8	-0.4	104	0	0	—	-0.48	*	*	*	*
	Edgeworthstown	76	40	67.6	48.0	57.1	-0.3	106	0	2	0.02	-0.58	*	*	*	*
CHANNEL ISLANDS	Dublin	70	45	67.5	51.3	58.8	-0.9	118	0	0	—	-0.41	71.8	+30.8	62	+28
	Parsonstown	75	39	68.0	48.4	57.5	-0.5	109	0	0	—	-0.50	58.8	+23.4	51	+20
	Kilkenny	73	42	69.6	48.1	58.1	-0.3	113	0	1	0.03	-0.52	*	*	*	*
	Roche's Point	70	47	65.9	52.4	58.7	-0.5	117	0	0	—	-0.68	*	*	*	*
	Valencia	71	42	64.4	51.9	57.7	-0.5	110	0	1	0.01	-0.96	63.2	+11.5	55	+19
	Killarney	77	41	68.6	47.9	57.5	-0.2	109	0	1	0.02	?	*	*	*	*
CHANNEL ISLANDS	Foynes	76	45	66.1	51.7	58.4	+0.9	115	0	1	0.02	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	69	54	65.9	55.3	60.2	+0.8	127	0	0	—	-0.46	85.4	?	76	?
	Jersey	72	49	67.3	53.9	60.1	-1.1	127	0	1	0.18	-0.25	95.7	+42.1	86	+38

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

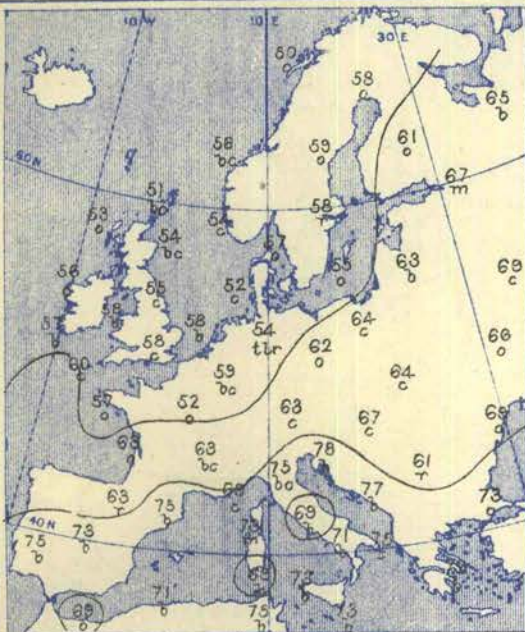
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 3rd July.

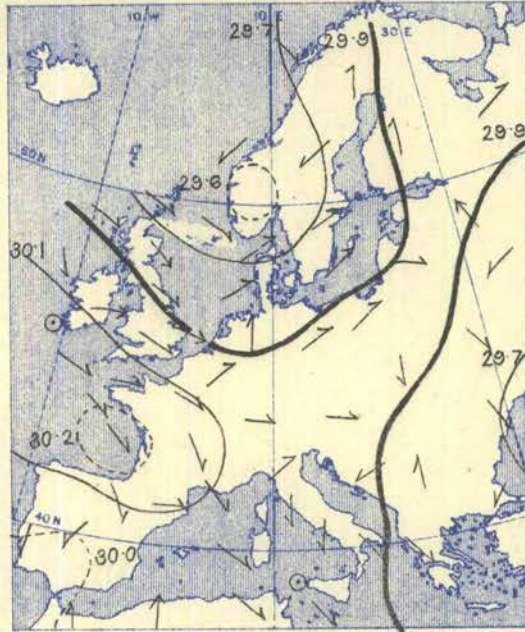
Temperature and Weather.

8 a.m.

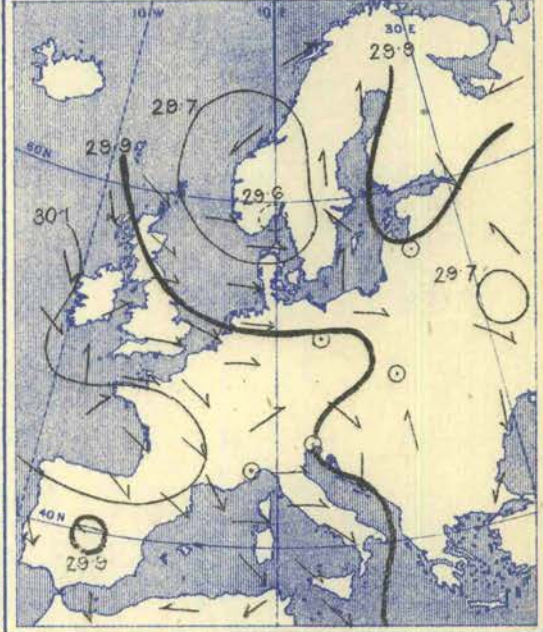


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the Mediterranean and Spain, fair over the United Kingdom generally, cloudy and unsettled over the Baltic and Russia. Rain falling later over Norway and the northern parts of our Islands, and in many parts of Germany, the Netherlands, and the north of France,—heaviest at the Swedish and Danish stations.

Temperature was highest, 70° at Athens, 70° and more at many stations on the shores of the Mediterranean, 71° at Kharkov, and above 65° over the central and southern parts of Russia. Lowest, 51° at Sumburgh Head, 52° at Wick, 53° at Nairn, 54° at Skudesnaes, Ardrossan and Malin Head. Rising later to between 63° and 68° over the greater part of England to 70° at Paris and in London, and to between 65° and 60° over Ireland and Scotland, and touching 77° at Nice, 86° at Cagliari, and 90° at Aumale.

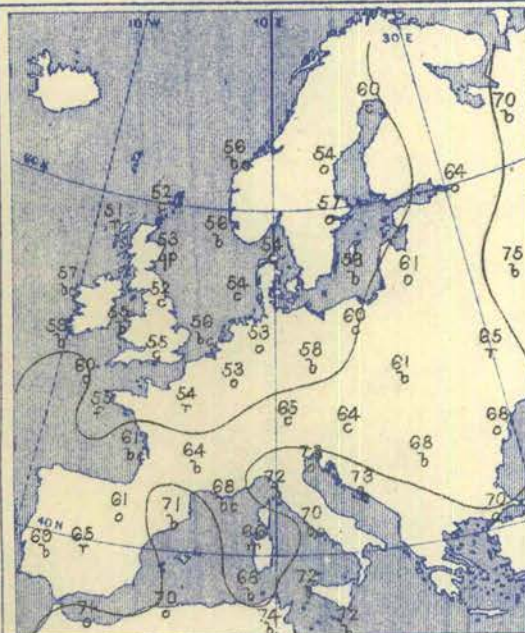
Wind (1) North-Westerly to Westerly over our Islands—fresh to moderate at the northern, north-eastern, and eastern stations, but light in the west; Westerly and moderate over the English Channel, South-Westerly over the Netherlands, north Germany and the Baltic, South-Easterly in the west of Norway. (2) Light and variable over Russia, central and western Europe: North-Westerly over the eastern parts of the Mediterranean, North-Easterly at Constantinople. Becoming more variable and fresher over the Mediterranean later.

Barometer highest 30.2 ins. over the Bay of Biscay, France, Ireland, and the south-western half of England, and exceeding 29.9 ins. over the Baltic provinces, the eastern parts of Finland, and the north of Russia. Lowest, 29.6 ins. to 29.7 ins. over Norway and the Shetland Islands, as well as over Asia Minor, the Black Sea, and the southern parts of Russia. Rising a little later in the north and north-west of our Islands.

Monday, 4th July.

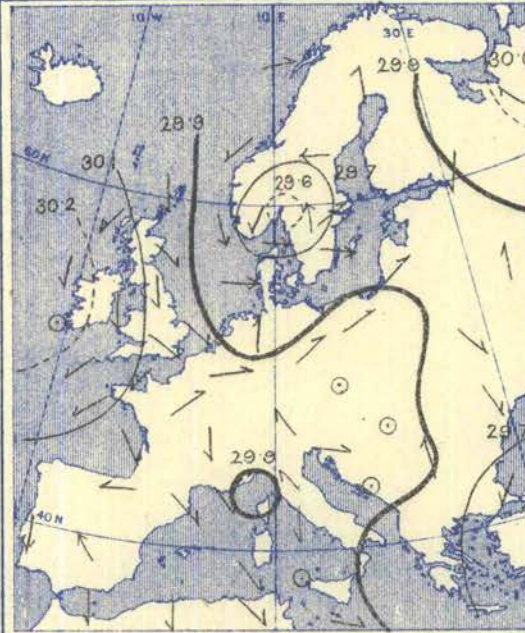
Temperature and Weather.

8 a.m.

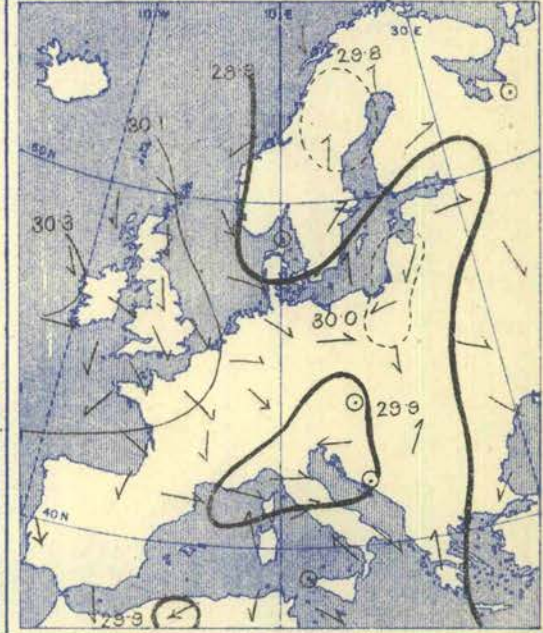


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over nearly the whole of the British Islands, but showery in the extreme north and east of Scotland, in several parts of central France and in some parts of southern Russia. Rain falling later, but not in large quantities over Scotland, Norway, Germany and the Netherlands; slight falls at Paris and Biarritz also.

Temperature in morning highest, (1) 74° at La Calle, 72° at Malta, Palermo and Leghorn, 71° at Perpignan; (2) 75° at Moscow, 72° at Kharkov, 70° at Archangel, and 64° at St. Petersburg. Lowest, 51° to 53° at most of the Scotch stations, 54° at Parsonstown, Oxford and at Paris, and below 60° over nearly the whole of north-western Europe. Falling to reach 70° at any of our own stations later, but touching 67° at Loughborough, 68° in London, and 69° at Paris, 73° at Berlin and Lorient, 82° at Perpignan.

Wind, (1) fresh to light from between North-West and North-East over the United Kingdom, but light and variable over France and central Europe; (2) moderate to strong and cyclonic over Scandinavia and the Baltic; North-Easterly to Northerly and light over the southern half of Russia. No decided change later.

Barometer highest, 30.2 ins. and more to 30.1 ins. over all the western parts of the United Kingdom, and exceeding 30.0 ins. over France, and in a "ridge" extending thence in an easterly direction over Germany. Lowest, (1) 29.6 ins. and less to 29.7 ins. in a depression over Scandinavia, and in another larger disturbance over Asia Minor and the Black Sea; (2) below 29.9 ins. in a small system over the extreme north-eastern parts of the Mediterranean. Rising over western Europe later, but rise being checked in the north-west of our Islands.

Tuesday, 5th July.

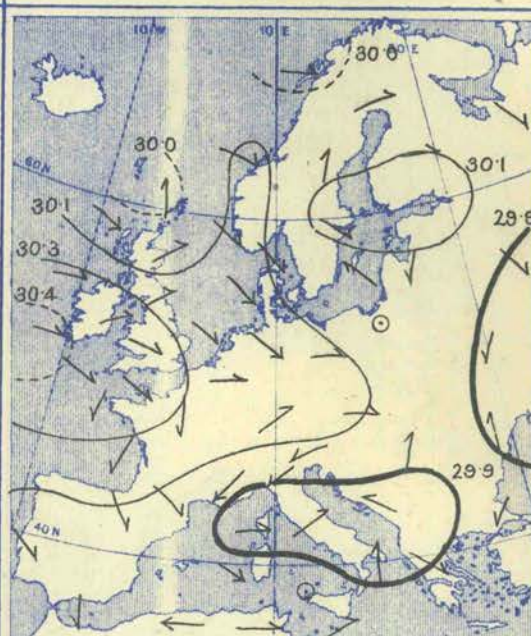
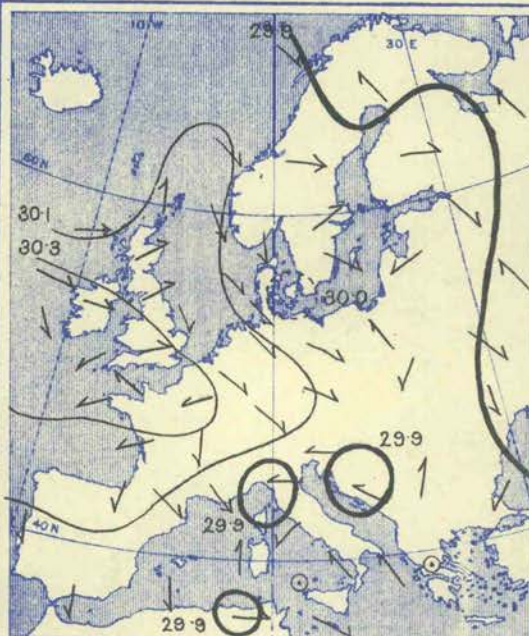
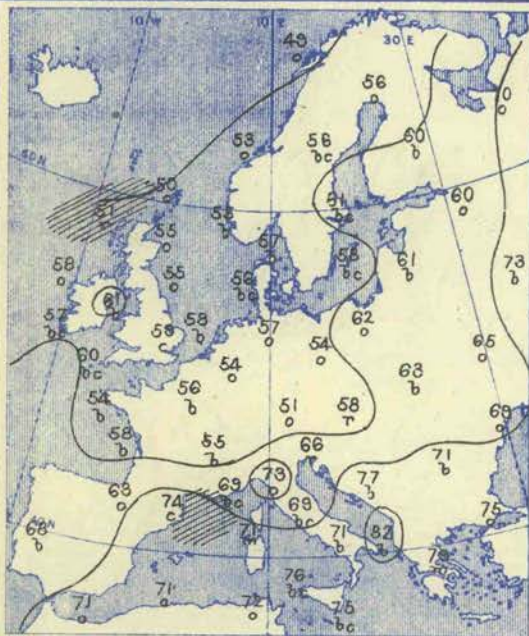
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine over Ireland, England, France and Spain, as well as over the greater part of the Baltic, the Baltic provinces and the greater part of Finland; rainy over Scotland and Denmark. Rain falling later at our northern and eastern stations, and in several parts of the Continent, but weather remaining fine over the greater part of Ireland, England, and the north and west of France.

Temperature changing fitfully. Morning readings highest, 82° at Brindisi, 76° at Palermo, and exceeding 70° at many of the Mediterranean and Adriatic stations, as well as over central Russia. Exceeding 60° on the south coast of England, and touching 60° at many stations in Finland. Lowest, 49° at Bodö, and 60° at Sumburgh Head, 51° at Stornoway, Nairn and Leith, 52° at York, 55° at Oxford. Touching 70° in London later, 68° at Berlin, 66° at Paris, but reaching 80° at Perpignan, and 84° at Rochefort.

Wind light and anticyclonic over by far the greater part of Ireland, England, France and Spain, but cyclonic and very variable over the northern, eastern, and southern parts of Continental Europe and the Mediterranean; South-Westerly and moderate at the Scotch stations. Veering to West-North-West at Stornoway later, and blowing freshly in the north and west of Scotland generally.

Barometer highest, 30.3 ins. and more to 30.2 ins. over Ireland, England, and the greater part of France, and exceeding 30.0 ins. over the Baltic and north Germany. Lowest, below 29.9 ins. in several shallow depressions lying over the Mediterranean, the Adriatic, Russia and northern Europe, and below 30.1 ins. in another approaching the north of Scotland from the Atlantic. Latter system spreading eastwards and south-eastwards later.

Wednesday, 6th July.

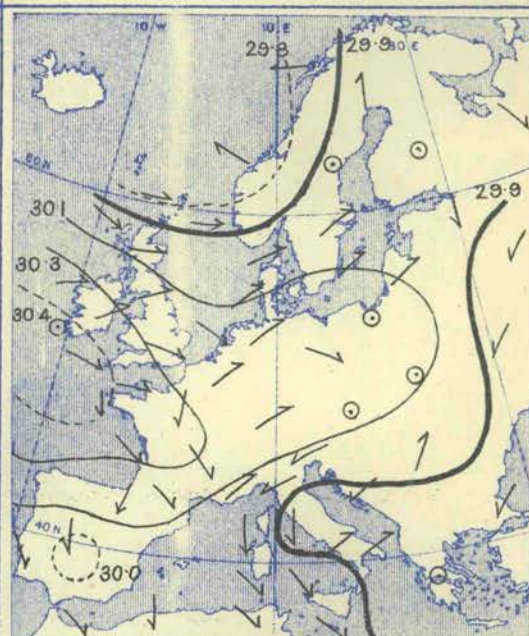
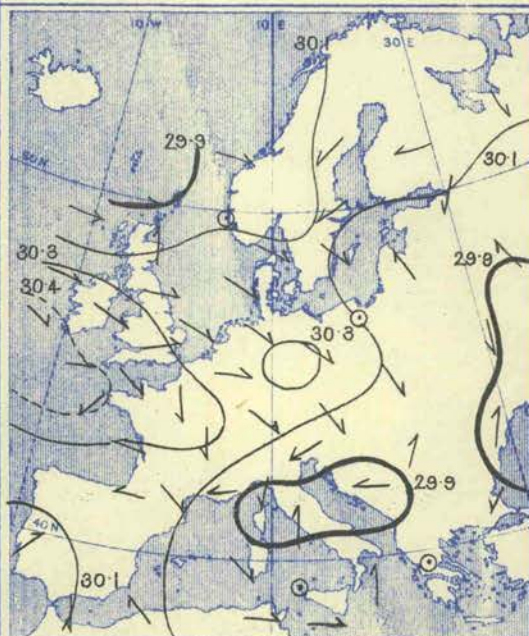
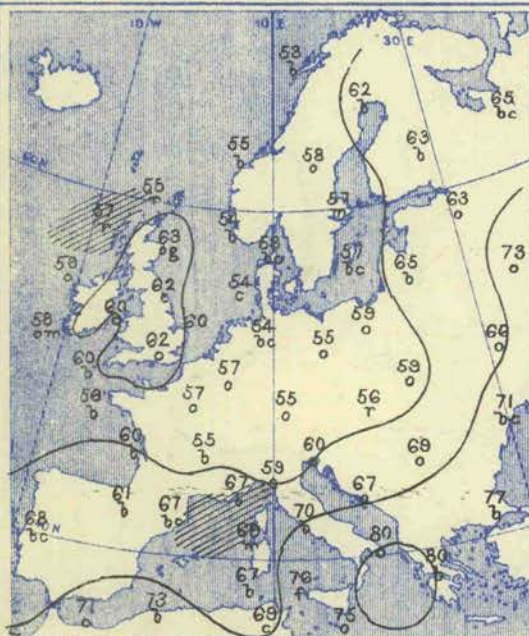
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fair generally over the greater part of Ireland, England, France and north Germany, and very fine over Finland, Lapland and Norway. Rainy in the north of Scotland and at several stations in south Germany. Rain falling later at many of the stations in the north of our Islands and in Scandinavia, as well as in the Netherlands and some parts of Germany, but continuing very fine over France and our south-western districts.

Temperature fallen fast over Italy and the south of Austria, but risen in many parts of our Islands. Morning readings highest, 80° at Athens and Brindisi, 77° at Constantinople, and above 70° at several stations in the south and south-east of Europe; above 60° over Great Britain, as well as over Finland and the Baltic Provinces. Lowest (1), 53° to 55° in the west of Norway and the Shetland Islands; (2) between 51° and 60° over the central parts of France, Germany and Austria. Rising later to between 70° and 76° over England and the east of Scotland, to 73° at Paris, and between 75° and 77° in the south of France, but not exceeding 61° at Berlin and Cuxhaven, nor 63° at Munich.

Wind (1) Westerly, moderate to fresh at our northern stations, Southerly at Faerder and Karlstad, Easterly at Bodö; (2) moderate and cyclonic over the Adriatic, Italy, and the eastern half of the Mediterranean; (3) light and very variable elsewhere, and mainly anticyclonic over Ireland, England, France and Germany.

Barometer highest, 30.4 in. and more over the south of Ireland, Cornwall and Brittany, and 30.3 in. to 30.2 in. over Ireland, England, France, and the greater part of Germany. Lowest, 29.9 in. and less in several shallow depressions,—one off the north of Scotland, another over the southern half of Russia, and a third over Italy and the Adriatic. Falling decidedly later over Scandinavia, as the depression in the north moved eastwards.

Thursday, 7th July.

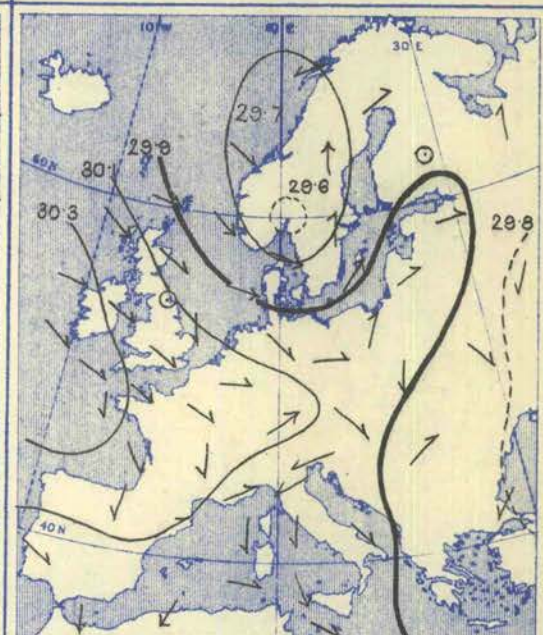
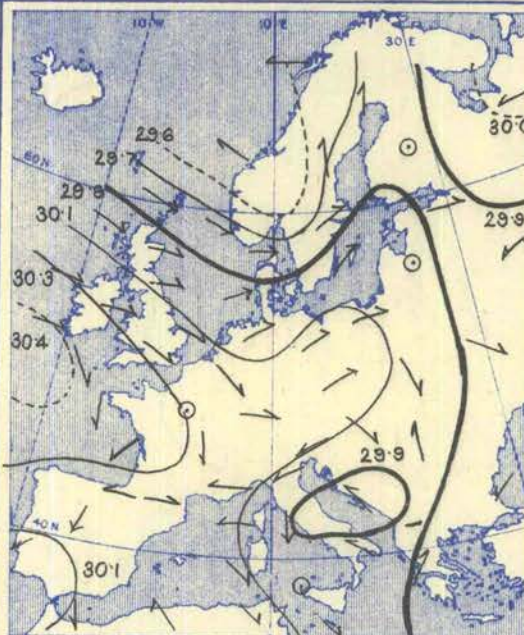
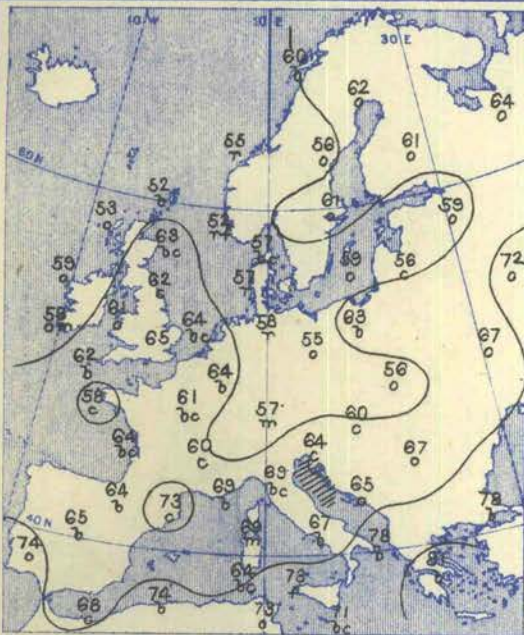
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright over Spain and France; fair over central Germany and England, but cloudy at the more northern stations, and showery in several localities in the countries lying to the eastward of the North Sea, as well as at Malin Head, and in some parts of Italy. Rain falling later all over Germany and locally in several parts of Scandinavia and the north-west of our Islands, but remaining very bright at our south-western stations.

Temperature falling at our northern stations, rising in the south and over France. Morning readings highest, 81° at Patras, 78° at Brindisi, and exceeding 70° on the southern coasts of the Mediterranean; above 60° over the greater part of France, England and the east of Ireland, as well as over Finland and the north of Russia. Lowest, 52° at Sumburgh Head, and Skudenes, 53° at Stornoway and Wick, and below 50° in Denmark and the greater part of north Germany. Rising later to between 70° and 75° over England, but not reaching 70° over Ireland and Scotland as a whole, nor at the German stations.

Wind (1) North-Westerly to Westerly, fresh to moderate in force over the northern and eastern parts of our Islands, Westerly and South-Westerly on the eastern shores of the North Sea, Southerly over the northern half of Sweden, and Easterly over the north-western parts of Norway; (2) anticyclonic over Spain, France, and central Europe, and of little force; (3) cyclonic and stronger over Italy and the Adriatic. No great change later.

Barometer 30.4 ins. to 30.2 ins. in an anticyclonic system spreading in from the Atlantic over western to central Europe. Lowest, below 29.6 ins. over the northern half of Norway; below 29.8 ins. over central Russia; 29.8 to 29.9 ins. over the Adriatic, Italy, and Dalmatia. Rising later in the north and north-west of our Islands, falling in the south and on the Continent.

Friday, 8th July.

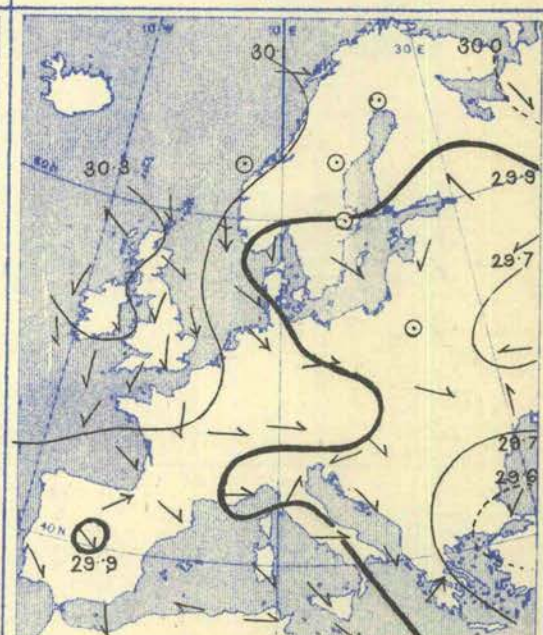
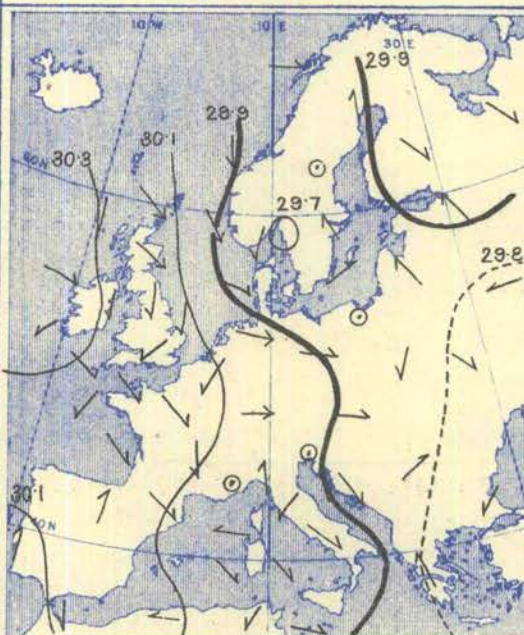
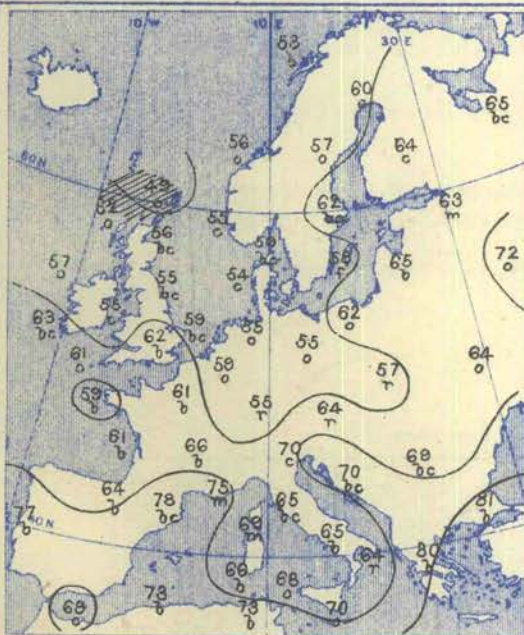
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine generally over the British Islands, France and Spain; cloudy, unsettled and very changeable over the northern, central, and eastern parts of Europe, with rain in several parts of Austria, and a great deal of cloud in north Germany. Rain falling later in many parts of Austria, Germany, and Scandinavia; the largest amounts being nearly an inch at Lemberg, and 0.6 in. at Munich.

Temperature falling over western Europe generally, rising over Finland, and some parts of southern and central Europe. Morning readings highest, 81° at Constantinople, 80° at Patras, 78° at Barcelona; and above 70° at several of the Mediterranean stations, 68° at Prawle Point, and above 60° over our southern counties generally. Lowest, 49° at Sumburgh Head, 52° at Stornoway and Wick, 53° at Bodø, 55° at Naïrn. Rising later to 70° or more in many parts of England, to 75° at Hurst Castle and Paris, to 77° at Lorient and Rochefort, and to more than 80° at Perpignan and Lisbon, 82° at Rome, 84° at Cagliari, 96° at Madrid.

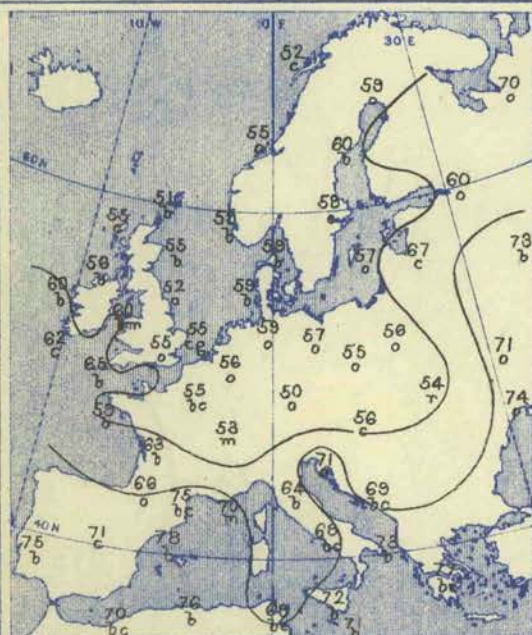
Wind (1) North-Westerly to Northerly over the western countries as a whole, and blowing very freshly in the north of our Islands and the south-west of Norway, (2) very light and variable over the eastern, south-eastern, and extreme southern countries. No decided change later.

Barometer (1) 30.3 ins. and more to 30.1 ins. over the British Islands, France, and almost the whole of Spain; (2) exceeding 29.9 ins. over Finland and the north of Russia. Lowest (1) 29.7 ins. to 29.8 ins. over Denmark, the southern parts of Sweden, and the Baltic, (2) below 29.8 ins. over Asia Minor, Turkey in Europe, and the southern half of Russia. Rising later over Norway and the northern parts of the British Islands, falling slightly over France.

Saturday, 9th July.

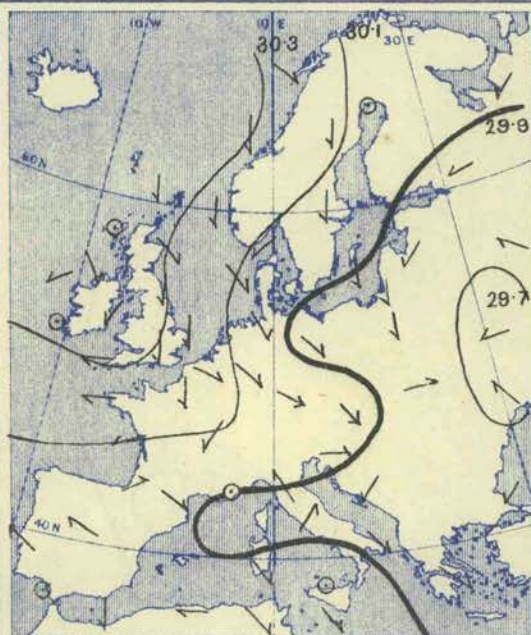
Temperature and Weather.

8 a.m.

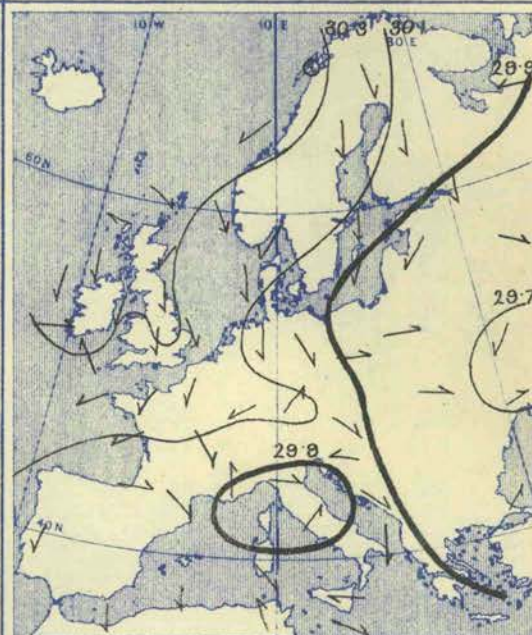


Barometer and Wind.

8 a.m.



8 p.m.



Weather in morning fine over our Islands and western Europe as a whole—bright at all the western stations, very dull over the east and south-east of England and the Netherlands; fine in Denmark, changeable over central Europe, with rain in places. Rain falling later at the German and Baltic stations, and very small quantities in the extreme east of England, much cloud in the south-east of England and north-east of France, but fine weather in the west and north of the British Islands and in Norway.

Temperature in morning, highest, 78° at Barcelona, 77° at Palma and at Athens, and exceeding 70° at many of the Mediterranean and Adriatic stations, and over Russia; 65° at Scilly, and 60° or more on our south-western coast as a whole. Lowest, (1) 51° at Sumburgh Head, 52° at Bodø, 55° at Stornoway and Aberdeen; 52° at Shields, York, and Loughborough; (2) 50° at Munich, 53° at Belfort, 55° at Paris. Not touching 70° in any part of Great Britain later, but reaching 75° at Parsonstown, and 69° in several other western localities; 70° at Berlin and Lyons, 79° at Nice, 84° at Cagliari, 86° at Lisbon, 90° at Croisette, and 100° at Annale and Lachonot.

Wind calm or nearly so in Scotland, Northerly to Easterly over north-western and western Europe as a whole, and light to moderate in force. Northerly and fresher over Germany, variable (cyclonic), but moderate over the Mediterranean. No decided change later.

Barometer highest, 30.3 ins. and more to 30.1 ins. in an anticyclone spreading from the Atlantic all over our Islands, the northern half of France, the North Sea, and Norway. Lowest, 29.7 ins. and less to 29.3 ins. over the southern half of Russia, and below 29.9 ins. over the northern parts of the Mediterranean. Gradients very slight over the United Kingdom and the north of France. No change to note during the day.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 8 p.m. is prepared from observations made at 8 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this week anticyclonic conditions have prevailed almost continually over western Europe, inclusive of the south-western and western parts of the British Islands, and in these regions the weather has been dry and bright, and temperature in some places rather high.

Over the northern countries, however, some depressions of little depth have appeared, their central parts passing south-eastwards across Scandinavia and the Baltic to central Europe, causing a good deal of rain from time to time in those regions.

Northerly winds have consequently been prevalent over the United Kingdom, and under the influence of very slight disturbances (secondary to those named above) they have occasionally blown very strongly over Scandinavia and Denmark, and very freshly on our eastern coasts, where large quantities of cloud have prevailed and kept the temperature much lower over the eastern and south-eastern counties than in the west.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 158.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	33.0	?	30	?	WESTBOURNE (Emsworth)	67.1*	+20.3	59*	+17
STRATHPEFFER SPA	31.1	- 4.2	25	- 4	WATERGATE (Emsworth)	55.7	?	49	?
EDINBURGH	55.4	+22.6	46	+19	BRIGHTON	51.9	+ 0.9	46	0
MORPETH	58.4	?	49	?	EASTBOURNE	54.9	+ 5.3	49	+ 4
NEWCASTLE-ON-TYNE	52.1	?	44	?	VENTNOR HOSPITAL	77.5	?	69	?
OSWALDKIRK (Yorkshire)	36.8	+ 2.0	31	+ 1	SOUTHPORT	55.5	?	47	?
HOLLESLEY BAY	45.1	?	40	?	COLWYN BAY	62.3	?	54	?
SHEFFIELD	47.1	?	41	?	TENBY	88.0*	+36.0	77*	+32
WORKSOP	42.4	+ 7.6	37	+ 6	NEWQUAY	81.0	+29.2	72	+27
THURCASTON (Leicestershire)	41.0	+ 4.0	25	+ 3	TORQUAY	83.8*	+33.9	75*	+29
PLUMSTEAD COMMON	28.9	?	26	?	GUERNSEY	95.3*	+41.2	80*	+38
MARGATE	30.0	-10.8	27	-10					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C. ; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 28.]
Third Series.

WEEK ENDING SATURDAY, JULY 16TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 164.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1893.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH .	74	42	63.9	49.1	56.0	1 above	Day-deg. 98	Day-deg. +17	Day-deg. 0	Day-deg. 0	Day-deg. 957	Day-deg. +137	Day-deg. 395	Day-deg. -228
	1. SCOTLAND, EAST .	80	38	70.1	48.6	58.6	2 above	116	+18	0	0	1123	+98	427	-222
	2. ENGLAND, N.E. .	78	40	67.8	49.5	58.0	1 below	112	+4	0	0	1166	+117	333	-216
	3. ENGLAND, EAST .	81	37	69.1	49.3	58.5	2 below	116	-4	0	0	1308	+36	410	-207
	4. MIDLAND COUNTIES	80	39	71.9	49.9	60.2	1 above	127	+11	0	0	1331*	+24	404	-215
	5. ENGLAND, SOUTH .	85	41	70.6	51.9	60.6	0 (average)	130	+4	0	0	1458	+68	234	-243
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST .	74	38	66.6	50.5	57.9	1 above	111	+11	0	0	1220	+128	245	-217
	7. ENGLAND, N.W. .	73	44	66.2	52.0	58.6	1 below	116	+6	0	0	1273	+111	215	-244
	8. ENGLAND, S.W. .	80	40	70.3	52.9	60.9	2 above	132	+17	0	0	1437	+101	205	-156
	9. IRELAND, NORTH .	76	42	66.2	51.2	58.2	1 above	113	+11	0	0	1293	+105	227	-168
	10. IRELAND, SOUTH .	77	48	70.0	54.8	61.9	3 above	139	+28	0	0	1539	+165	165	-134
	—CHANNEL ISLANDS.	76	52	68.0	57.2	62.2	2 above	141	+16	0	0	1712	+209	55	-93

DISTRICTS. (See p. 164.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1893.			For the Week.				From January 2nd, 1893.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH .	3	10ths of in. 2	10ths of in. 6 less	141	+16	Ins. 29.7	+6.3	44	+14	36	+11	725	+34	28	+1
	1. SCOTLAND, EAST .	1	1	6 less	106	+5	12.7	-2.1	52	+16	44	+13	796	+24	32	+1
	2. ENGLAND, N.E. .	0	less than ½	6 less	97	+2	10.1	-2.1	59	+25	51	+22	744	+5	31	+1
	3. ENGLAND, EAST .	0	less than ½	6 less	89	-3	10.2	-1.9	59	+15	52	+13	831	-62	33	-2
	4. MIDLAND COUNTIES	0	—	6 less	87	-4	9.1	-4.3	61	+21	54	+19	809*	+24	33	+1
	5. ENGLAND, SOUTH .	1	less than ½	5 less	84	-3	9.8	-3.6	53	+9	48	+8	821	-64	34	-3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST .	2	1	7 less	122	+15	19.6	-3.4	56	+17	48	+15	843	+61	35	+3
	7. ENGLAND, N.W. .	1	less than ½	7 less	101	+4	16.7	+1.4	64	+24	56	+21	896	+104	37	+5
	8. ENGLAND, S.W. .	0	—	7 less	95	-3	14.9	-3.0	62	+15	56	+14	1027	+54	41	+2
	9. IRELAND, NORTH .	2	1	6 less	129	+15	17.6	+0.1	42	+7	37	+7	800	+29	32	+1
	10. IRELAND, SOUTH .	0	—	7 less	97	-8	16.8	-2.2	56	+20	49	+17	889	+22	36	+1
	—CHANNEL ISLANDS.	0	—	5 less	107	+2	12.0	-3.0	75	+24	69	+22	1107	+9	45	+1

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather was again fine and bright in nearly all parts of the Kingdom, the only rainfall recorded being slight quantities on our extreme north-western coasts, and still slighter amounts at some of our south-eastern stations.

Temperature was a little above the mean in most districts, but only just equal to it in England S., and rather below it in England E., N.E., and N.W. The highest of the maxima occurred towards the end of the week, when they ranged from 85° in England S. (at Southampton), and from 81° or 80° in several other parts of England and in the east of Scotland, to 77° or 76° in Ireland, 74° in Scotland N. and W., and to 73° in England N.W. At the commencement of the week the maxima recorded over the south and east of England were very low. The absolute minima, which generally occurred either on the 11th or 14th, varied from 37° in England E., 38° in Scotland E. and W., and 39° in the Midland counties, to 48° in Ireland S., and to 52° in the Channel Islands. At Cullompton on the 14th a thermometer exposed on the grass fell as low as 31.4°.

Rainfall was almost entirely absent from England and the south of Ireland, but slight falls were experienced at times in Scotland and the north of Ireland.

Bright Sunshine exceeded the mean in all districts, the excess being very considerable in most places. The percentage of the possible duration ranged from 69° in the Channel Islands, and from 56° in England N.W. and S.W., and 52° in England E., to 44° in Scotland E., 37° in Ireland N., and 36° in Scotland N.

Barometer and Wind.—The distribution of pressure over the United Kingdom was mainly anticyclonic, with light winds varying from between North and West. Our extreme northern and north-western coasts, however, were occasionally under the influence of depressions, secondary to large systems moving in a south-easterly direction over Scandinavia.

II.—DATA from which the SUMMARY on page 163 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	59	44	57.0	47.6	52.0	- 0.5	70	0	4	0.08	- 0.44	*	*	*	*
	Stornoway	65	46	60.4	49.7	54.7	+ 0.5	89	0	5	0.34	- 0.36	34.1	- 2.9	28	- 2
	Wick	70	42	64.4	49.1	56.2	+ 1.3	99	0	4	0.20	- 0.35	*	*	*	*
	Lairg	74	42	68.4	47.6	57.3	+ 3.0	107	0	2	0.16	- 0.66	*	*	*	*
	Glencarron	68	44	61.4	48.4	54.5	- 0.4	88	0	4	0.33	- 0.99	*	*	*	*
	Fort Augustus	72	44	68.7	50.3	58.9	+ 2.4	118	0	1	0.02	- 0.60	51.6	+27.2	43	+23
	Fort William	71	46	66.9	50.9	58.3	+ 1.8	114	0	2	0.17	- 0.99	40.5	+ 7.9	34	+ 6
1. SCOTLAND, E.	Nairn	74	40	70.0	49.4	59.0	+ 1.9	119	0	1	0.05	- 0.53	*	*	*	*
	Aberdeen	70	44	65.6	50.6	57.6	+ 0.9	109	0	2	0.04	- 0.56	50.4	+11.1	42	+ 9
	Braemar	74	38	68.8	46.8	57.0	+ 2.5	105	0	1	0.01	- 0.66	60.2†	+25.0†	51†	+21†
	Ochertyre	80	43	75.1	48.1	60.7	+ 2.7	131	0	2	0.02	- 0.71	*	*	*	*
	Leith	77	46	71.3	50.9	60.4	+ 1.9	129	0	1	0.21	- 0.37	*	*	*	*
	Marchmont	76	42	69.7	45.7	56.9	+ 0.4	104	0	1	0.04	- 0.71	54.3	+15.6	46	+13
2. ENGLAND, N.E.	Alnwick Castle	73	40	68.4	47.8	57.4	+ 0.4	108	0	1	0.01	- 0.57	*	*	*	*
	Durham	75	43	71.0	48.5	59.0	+ 0.3	119	0	0	—	- 0.64	65.5	+29.1	56	+25
	Shields	72	46	65.9	50.1	57.5	0.0	109	0	0	—	- 0.58	*	*	*	*
	Scarborough	73	43	65.7	48.0	56.2	- 2.6	99	0	1	0.02	- 0.59	61.8	?	54	?
	York	78	45	70.9	49.0	59.2	- 0.3	120	0	0	—	- 0.60	64.6	+27.5	56	+24
	Spurn Head	72	51	64.9	53.6	58.9	- 0.6	118	0	0	—	- 0.40	*	*	*	*
3. ENGLAND, E.	Hillington	79	37	69.5	46.7	57.3	- 3.0	107	0	0	—	- 0.68	58.9	+16.7	52	+15
	Yarmouth	69	43	64.6	52.1	57.9	- 2.0	111	0	1	0.09	- 0.51	*	*	*	*
	Geldeston	79	40	68.9	48.5	58.0	- 2.0	112	0	1	0.04	- 0.54	56.5	+10.7	50	+ 9
	Cambridge	81	44	72.0	50.1	60.3	- 0.9	128	0	0	—	- 0.58	59.1	+16.1	52	+14
	Rothamsted	78	43	70.3	49.0	58.9	- 1.3	118	0	0	—	- 0.60	60.5	+15.2	53	+14
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	79	44	72.3	48.0	59.3	- 0.6	121	0	0	—	- 0.60	*	*	*	*
	Loughborough	80	41	74.0	51.9	62.2	+ 1.1	141	0	0	—	- 0.52	*	*	*	*
	Stamford (Duddington)	80	42	72.3	49.1	59.9	- 1.0	125	0	0	—	- 0.60	*	*	*	*
	Cheadle	73	45	68.4	51.3	59.3	+ 1.9	121	0	0	—	- 0.73	*	*	*	*
	Shirley (near Solihull)	79	44	71.1	50.1	59.9	+ 0.2	125	0	0	—	?	*	*	*	*
	Churchstoke	79	39	71.0	47.5	58.9	+ 1.0	118	0	0	—	- 0.56	73.5	+34.0	65	+ 30
	Hereford	80	40	74.3	49.6	61.1	+ 0.9	134	0	0	—	- 0.52	*	*	*	*
	Cirencester	79	45	71.9	50.3	60.4	+ 1.4	129	0	0	—	- 0.68	55.3	+13.6	49	+12
5. ENGLAND, S.	Oxford	80	44	72.1	51.1	60.9	+ 0.1	132	0	1	0.02	- 0.58	55.3	+13.3	49	+12
	London	82	44	73.9	51.7	62.0	- 0.2	140	0	1	0.03	- 0.51	54.5	+15.7	48	+14
	North Foreland	73	49	67.3	53.3	59.8	- 0.1	125	0	1	0.01	?	*	*	*	*
	Cranley	81	41	73.0	48.3	59.8	- 1.7	125	0	1	0.03	?	*	*	*	*
	Dungeness	71	43	66.9	52.7	59.3	- 1.6	121	0	0	—	- 0.45	*	*	*	*
	Hastings (St. Leonards)	72	45	67.4	51.8	59.1	- 1.4	120	0	1	0.05	- 0.45	56.5	+ 6.5	50	+ 6
	Southampton	85	46	75.0	51.8	62.6	+ 0.9	144	0	1	0.02	- 0.58	57.0	+10.5	51	+10
	Hurst Castle	77	47	70.6	53.4	61.4	+ 0.1	136	0	0	—	- 0.52	*	*	*	*
6. SCOTLAND, W.	Shaftesbury	78	47	70.9	51.8	60.7	+ 2.3	131	0	0	—	- 0.69	*	*	*	*
	Laudale (Loch Sunart)	69	48	63.2	49.8	56.0	- 1.2	98	0	4	0.33	- 0.87	*	*	*	*
	Glasgow	74	48	67.3	51.7	59.0	+ 1.8	119	0	2	0.27	- 0.45	52.2	+17.2	44	+16
	Ardrossan	68	50	64.7	53.1	58.5	+ 0.8	116	0	1	0.06	- 0.55	*	*	*	*
	Glenlee	72	38	68.5	46.0	56.5	- 1.0	102	0	0	—	- 0.89	*	*	*	*
	Gilcrux (Cumberland)	71	45	66.9	50.6	57.9	+ 0.4	111	0	1	0.01	?	52.9	?	46	?
7. ENGLAND, N.W.	Douglas (Isle of Man)	72	45	68.7	51.5	59.5	+ 2.3	123	0	1	0.02	- 0.60	63.5	+16.5	55	+14
	Stonyhurst	69	46	65.7	50.5	57.6	- 0.8	109	0	1	0.02	- 0.95	67.9	+27.7	59	+24
	Blackpool	70	44	67.2	51.0	58.5	- 1.0	116	0	0	—	- 0.62	66.4	+24.8	58	+22
	Manchester (Prestwich)	73	45	68.5	50.2	58.7	+ 0.3	117	0	0	—	- 0.81	67.1	?	58	?
	Liverpool Obsy. (Bidston)	67	49	64.1	53.0	58.2	- 1.5	113	0	0	—	- 0.62	*	*	*	*
	Llandudno	71	51	66.4	54.1	59.8	+ 0.2	125	0	1	0.01	- 0.57	60.7	+19.2	53	+17
8. ENGLAND, S.W.	Holyhead	72	52	65.3	53.1	58.8	+ 0.1	118	0	2	0.04	- 0.47	*	*	*	*
	Llandovery	79	40	74.4	49.6	61.1	+ 2.5	134	0	0	—	- 0.88	*	*	*	*
	Pembroke	70	53	65.7	55.3	60.1	+ 1.7	127	0	0	—	- 0.52	54.7	+ 4.9	48	+ 6
	Clifton	79	49	71.5	54.9	62.6	+ 2.3	144	0	0	—	- 0.65	*	*	*	*
	Arlington (N. Devon)	73	46	68.1	51.6	59.3	+ 1.0	121	0	0	—	- 1.01	*	*	*	*
	Cullompton	80	49	73.1	49.5	60.5	- 0.1	130	0	0	—	- 0.71	51.3	+ 9.4	46	+ 9
9. IRELAND N.	Falmouth	72	52	68.3	55.4	61.4	+ 1.7	136	0	0	—	- 0.71	65.6	+15.5	60	+16
	Plymouth	77	47	69.9	53.3	61.0	- 0.1	133	0	0	—	- 0.60	74.6	+29.6	68	+27
	Prawle Point	79	49	71.0	53.3	61.5	+ 2.8	137	0	0	—	- 0.50	*	*	*	*
	Malin Head	62	53	59.7	54.6	57.0	+ 0.3	105	0	5	0.25	?	*	*	*	*
	Londonderry	76	48	67.3	51.8	59.0	+ 0.9	119	0	2	0.10	- 0.61	*	*	*	*
	Edenfel (Omagh)	74	44	66.9	49.3	57.5	+ 0.9	109	0	1	0.01	- 0.70	*	*	*	*
10 IRELAND S.	Belmullet	72	50	64.4	53.7	58.7	+ 1.0	117	0	4	0.08	- 0.70	*	*	*	*
	Markree Castle	72	42	65.1	49.7	56.9	+ 0.5	104	0	3	0.14	- 0.69	34.0	+ 1.5	30	+ 2
	Armagh	73	45	69.8	47.8	58.0	+ 0.5	112	0	1	0.01	- 0.69	50.5	+15.0	44	+13
	Donaghadee	72	45	66.6	50.6	58.0	+ 0.6	112	0	1	0.01	- 0.58	*	*	*	*
	Edgeworthstown	76	47	69.7	51.7	60.1	+ 2.8	127	0	1	0.01	- 0.74	*	*	*	*
	Dublin	75	52	71.4	55.2	62.7	+ 2.9	145	0	0	—	- 0.52	62.0	+23.5	54	+21
CHANNEL ISLANDS	Parsonstown	76	50	71.9	53.4	62.0	+ 3.8	140	0	0	—	- 0.60	52.5	+20.0	46	+17
	Kilkenny	76	50	72.7	54.1	62.8	+ 4.1	146	0	0	—	- 0.58	*	*	*	*
	Roche's Point	72	54	69.0	56.7	62.4	+ 2.9	143	0	0	—	- 0.70	*	*	*	*
	Valencia	73	50	66.6	54.6	60.2	+ 1.7	127	0	1	0.03	- 0.94	53.1	+15.3	47	+14
	Killarney	77	48	70.7	54.2	61.9	+ 3.8	139	0	0	—	?	*	*	*	*
	Foynes	77	52	68.0	55.2	61.2	+ 3.7	134	0	0	—	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	68	58	67.0	58.7	62.6	+ 2.9	144	0	0	—	- 0.52	72.9	?	66	?
	Jersey	76	52	68.9	55.6	61.8	+ 0.1	139	0	0	—	- 0.50	71.1	+18.7	65	+17

Stations marked $\mathcal{R}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

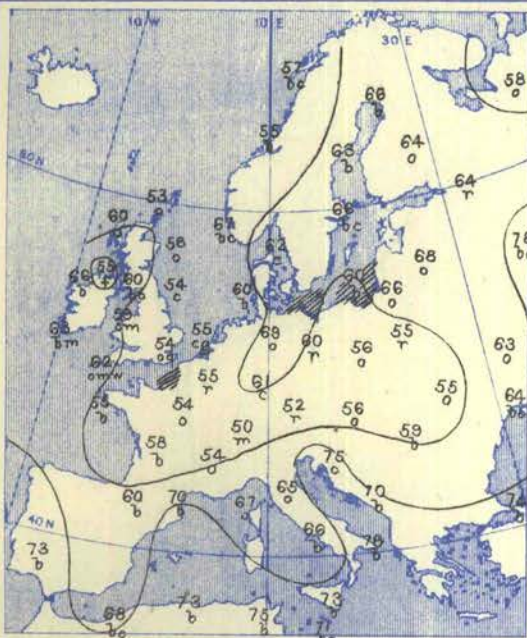
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 10th July.

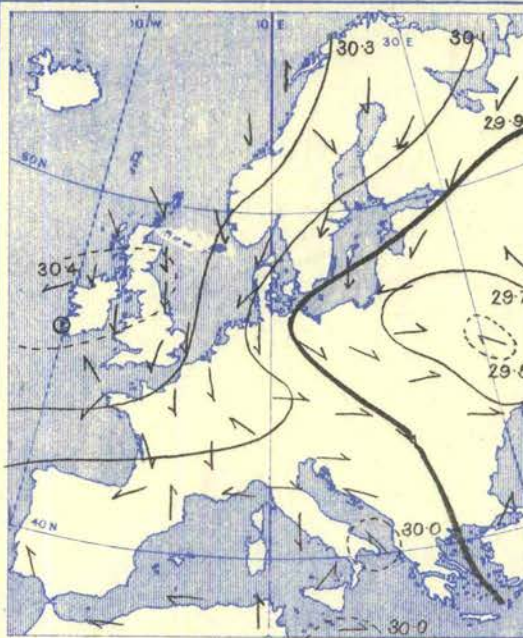
Temperature and Weather.

8 a.m.

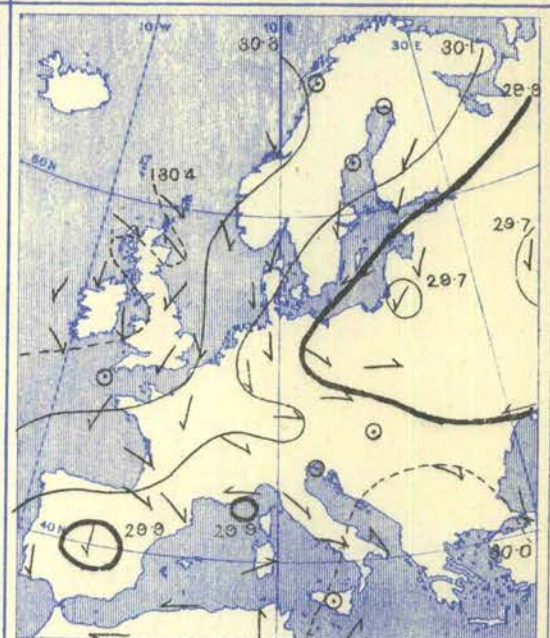


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over western and southern Europe as a whole, but dull in the eastern and central parts of Great Britain and France, and also in the extreme north of Scotland. Rainy at many of the German stations, and also at Brussels, Copenhagen and St. Petersburg; fine in Scandinavia. Showers falling later in the extreme north of Scotland, and considerable amount of rain in Germany—nearly an inch at Berlin. Thunderstorm occurring at Nice in evening.

Temperature risen in the west and north of our Islands, and also in the northern and central parts of the Continent, but fallen elsewhere. Morning readings highest, 79° at Oporto, Brindisi and Aumale, 78° at Moscow, and 75° at Trieste and La Caille; above 70° in many parts of southern and eastern Europe, and above 65° in Sweden and Finland, as well as in the west of Ireland. Lowest, (1) 50° at Belfort, and 52° at Munich; (2) 52° at Loughborough and Oxford, and 53° at Spinn Head and Cambridge. Daily maxima below 60° at some of the eastern stations in England, but thermometer exceeding 70° in several parts of Ireland and Scotland; exceeding 80° over southern Europe generally and reaching 97° at Madrid.

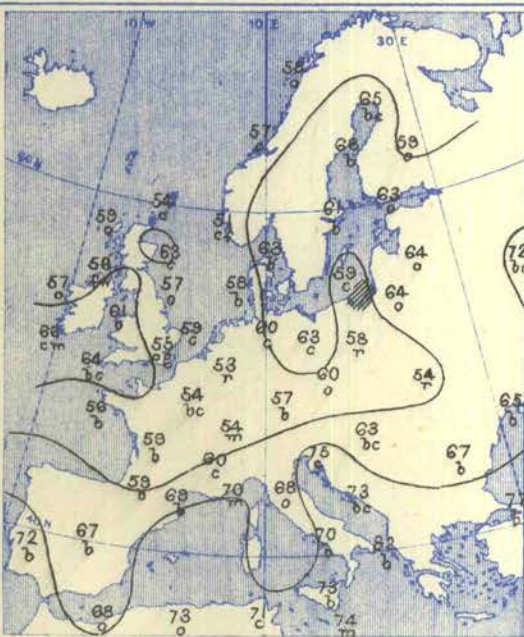
Wind light from the Northward or North-Eastward over the greater part of our Islands and France, and strong from the same quarters over Finland, Sweden and the Baltic. North-Westerly or Westerly in the north of Scotland and also over Denmark and Austria; variable over Italy and the Spanish Peninsula. Cyclonic circulation of light breezes appearing later over Scotland; no important change occurring elsewhere.

Barometer highest, 30.4 ins. and upwards over Ireland and the northern parts of Great Britain; 30.1 ins. and upwards in an anticyclone embracing nearly the whole of western and northern Europe. Lowest, 29.6 ins. and less in a shallow depression over the south-west of Russia. No important change occurring later, but depression over Russia breaking into two portions.

Monday, 11th July.

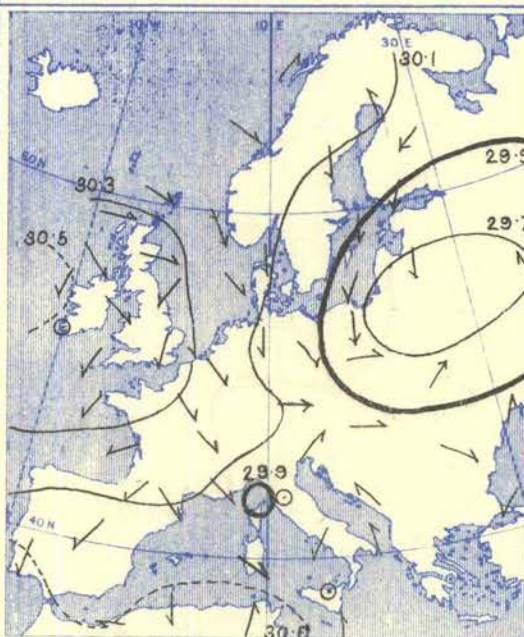
Temperature and Weather.

8 a.m.

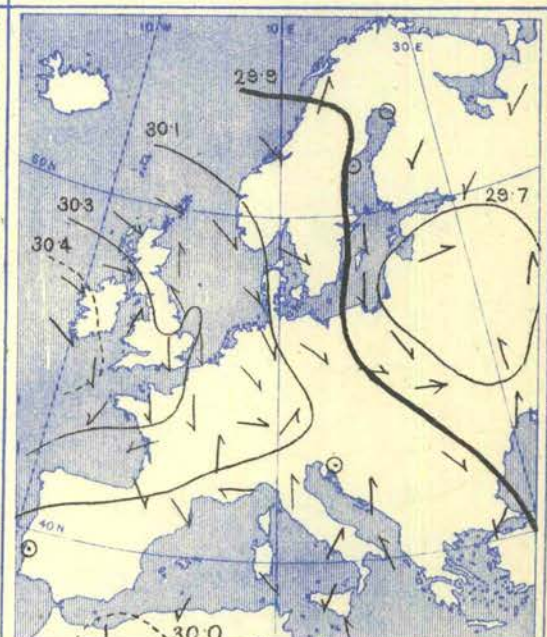


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over western and southern Europe generally, but dull over the south-eastern parts of England, as well as on our extreme north and north-west coasts and in the west of Norway. Dull over Germany and the western and northern parts of Russia, with rain in several places; rain falling also at Leghorn. Showers falling later in the extreme north and north-west of our Islands, as well as in several parts of France, Germany and Austria. Thunderstorm occurring at Nice.

Temperature changed very irregularly. Morning readings highest, 82° at Brindisi, 79° at Aumale, 77° at Constantinople, and 75° at Trieste; above 70° in many parts of southern Europe, and above 65° in Sweden. Lowest, (1) 51° at Skudsmoes, 54° at Sumburgh Head, and 55° at Bodø; (2) 53° at Brussels, 54° at Paris and Belfort, and 55° in London. Rising during day to 70° and upwards in many parts of the United Kingdom, and to 77° at Loughborough; exceeding 80° in several parts of southern Europe and reaching 90° at Cagliari.

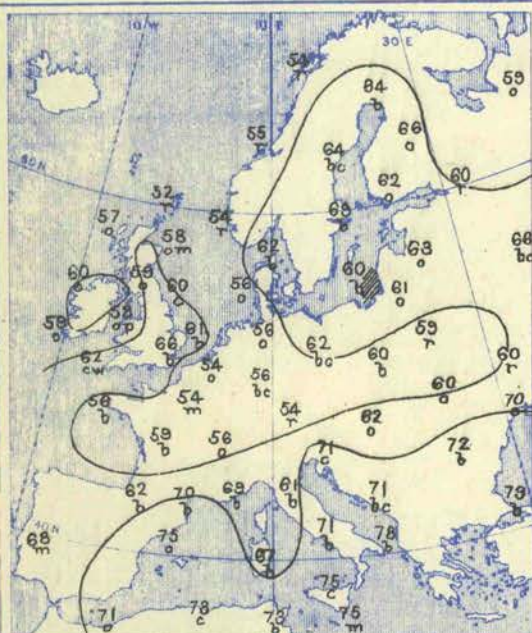
Wind light from the Westward in Scotland, from the North-Westward over the northern parts of Ireland and England, and from the North-Eastward over the south of England, the west of France and the Spanish Peninsula. Moderate to strong from the Northward over Finland, Denmark, north Germany, and the southern parts of Scandinavia, with a gale at Skudsmoes; Westerly over southern Germany and Austria; South-Westerly in the south of Russia. Variable over Italy and the Mediterranean. Subsequently backing to the West in the north of Ireland, and shifting to the South in the north-eastern parts of Great Britain.

Barometer highest, 30.50 ins. and upwards in an area lying off the west of Ireland; 30.2 ins. and upwards in an anticyclone covering the greater part of western Europe. Lowest, 29.7 ins. and less in a large depression over the western and central parts of Russia; 29.9 ins. and less in a small disturbance over the Gulf of Genoa. Anticyclone beginning to recede south-westwards during day and barometer falling over all the more northern parts of western Europe.

Tuesday, 12th July.

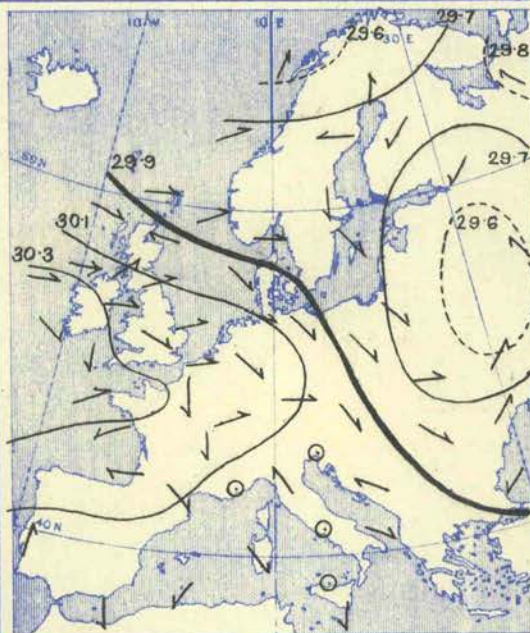
Temperature and Weather.

8 a.m.

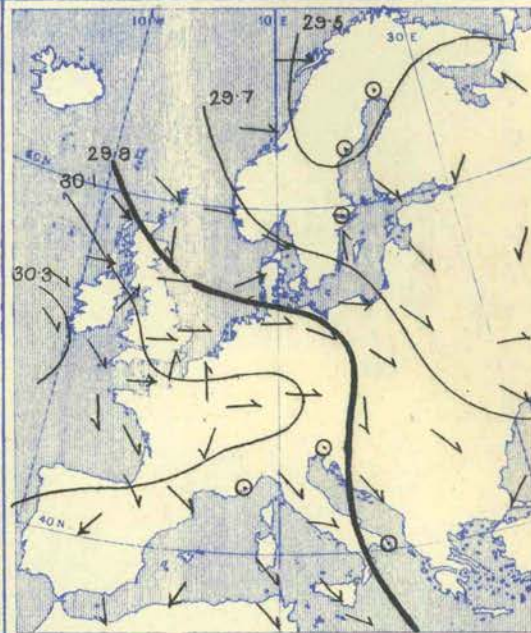


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the east and south of England, and also over the greater part of the Continent, but dull over south Germany, Austria and Russia, with rain in several places. Cloudy or dull in the west and north of our Islands generally, with rain at Malin Head and Sumburgh Head, as well as on the west coasts of Norway. Showers falling later at several of our own western and northern stations, and larger quantities of rain in some parts of Germany, Scandinavia and Russia.

Temperature risen over the eastern parts of England, changed very irregularly elsewhere. Morning readings highest, 79° at Constantinople, 78° at Brindisi, and 75° at Barcelona, Palermo and Malta; above 65° in London and also in several parts of northern Europe, and touching 70° at Ulenborg. Lowest, (1) 52° at Sumburgh Head and 54° at Bodø and Skudesnaes; (2) 54° at Brussels, Paris, Belfort and Munich. Rising during day to 70° and upwards in many parts of Great Britain, and to 76° in London. Exceeding 80° over southern Europe generally, and reaching 92° at Madrid.

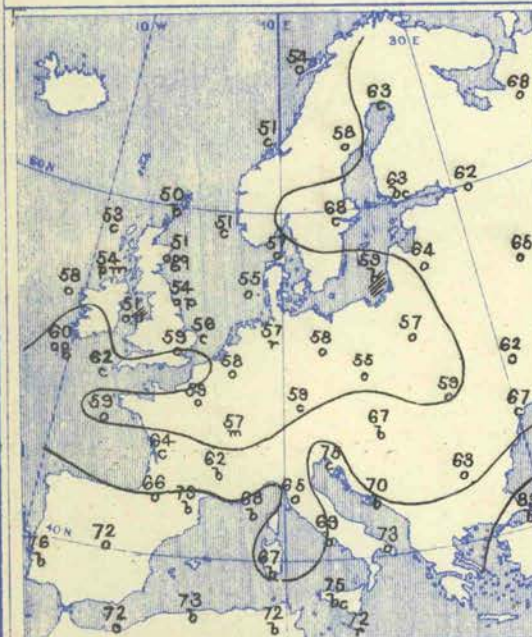
Wind light to moderate from the Westward or North-Westward over our Islands and the more central parts of the Continent, but South-Westerly in the west of Norway. Northerly or North-Easterly over the greater part of France; variable over Italy and the Spanish Peninsula. North-Easterly or Northerly over Finland and the Baltic Provinces, but Southerly over the central and southern parts of Russia. No important change occurring during day.

Barometer highest, 30.3 ins. and upwards over the north-west of France and the south of Ireland; 30.1 ins. and upwards in an anticyclone embracing the whole of Ireland, England, France, the Netherlands and western Germany. Lowest, 29.6 ins. and less in two depressions, one lying off the north-west of Norway, and the other over the western parts of Russia. Norwegian depression subsequently moving to the south-eastward, and barometer falling over western Europe generally.

Wednesday, 13th July.

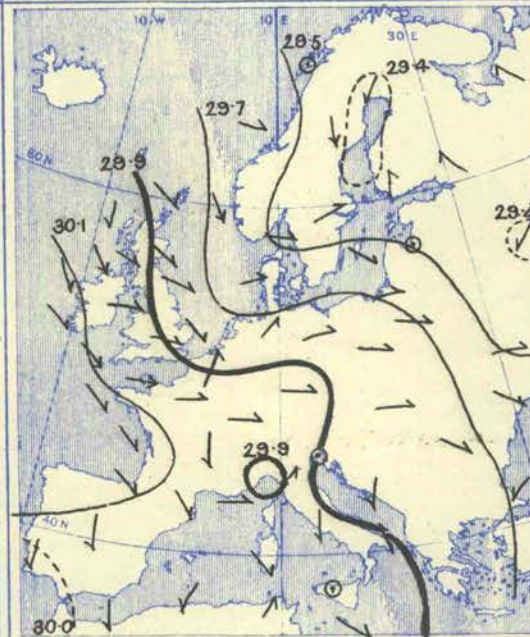
Temperature and Weather.

8 a.m.

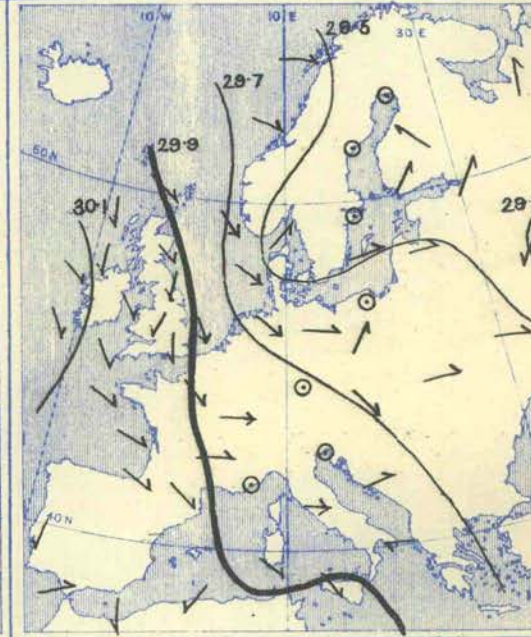


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over the greater part of western, northern and central Europe, with showers in isolated parts of the United Kingdom and steady rain at Cuxhaven and Copenhagen. Fine in most of the southern countries, and also over the Gulf of Finland and the south of Scandinavia. Sky clearing later in all parts of our Islands, but rain falling at many of the Continental stations—somewhat heavily in places. Lightning seen at Nice.

Temperature fallen in our Islands, Scandinavia, Denmark, and Germany, changed irregularly elsewhere. Morning readings highest, 83° at Constantinople, 78° at Barcelona, and 76° at Lisbon; above 70° in many parts of southern Europe, and touching 68° at Stockholm and Archangel. Lowest, 50° at Sumburgh Head and Wick, and 51° at Christiansund, Skudesnaes and Aberdeen; below 55° at many of our own northern stations. Remaining below 60° all day on several parts of our northern and eastern coasts, but exceeding 65° in the west and south, and reaching 74° at Prawle Point. Exceeding 80° in many parts of southern Europe.

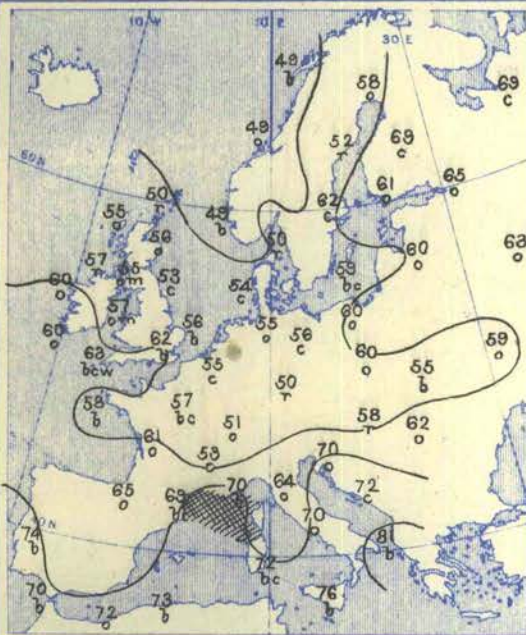
Wind light to fresh from the North-Westward over the greater part of our Islands and also in the west and south of France, but Westerly in the south-east of England. Light to moderate from the Westward or South-Westward over Denmark, the south of Sweden, and central and south-eastern Europe generally, but Northerly over the north of Sweden, and the south of Norway. North-Westerly in Italy. Northerly over the Spanish Peninsula. Northerly or North-Westerly winds setting in later over the whole of western Europe.

Barometer highest, 30.1 ins. and upwards in an anticyclone extending from the Atlantic over the south-west of Ireland, the Bay of Biscay, and the neighbouring parts of France and Spain. Lowest, 29.4 ins. and less in two shallow depressions—one lying over the Gulf of Bothnia and the other over central Russia. Secondary disturbance forming later over the south of Sweden and increasing gradually in intensity.

Thursday, 14th July.

Temperature and Weather.

8 a.m.

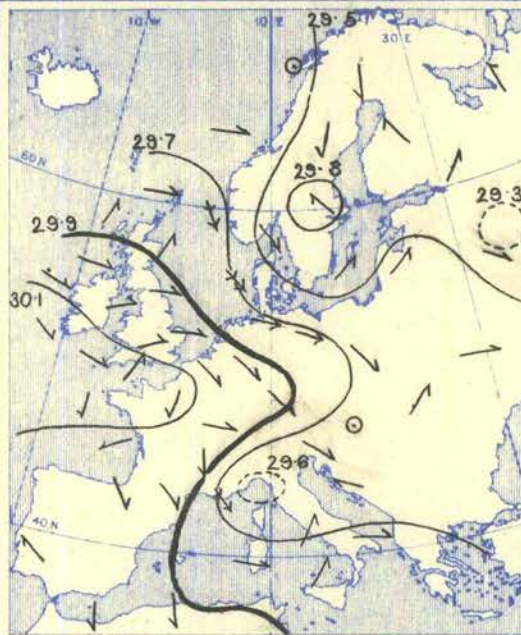


Weather in morning fine over England, the Netherlands, France, Spain, and southern Italy. Cloudy or dull elsewhere with rain at Malin Head, as well as in several parts of Sweden, Denmark, south Germany, Austria, and northern Italy. Sky clearing later at many of our own western and northern stations, but rain continuing to fall in Sweden; thunderstorm occurring at Fano at night. Heavy rain falling over northern Italy and the neighbouring parts of Austria.

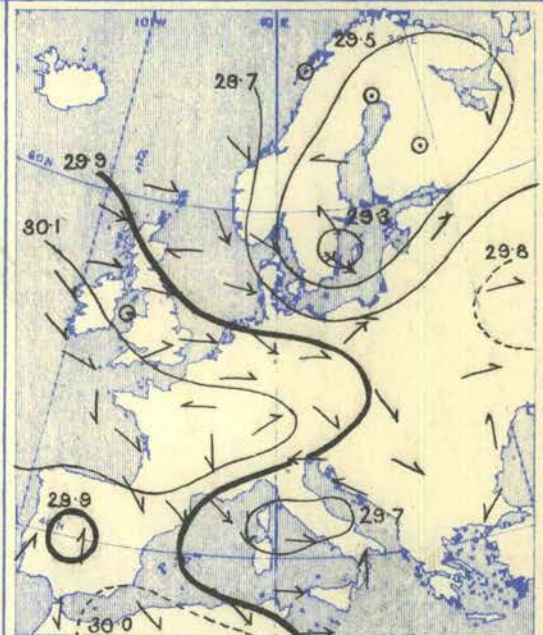
Temperature changed irregularly in our Islands, fallen at most of the Continental stations. Morning readings highest, 81° at Brindisi, 77° at Aumale, and 76° at Palermo; above 70° in many parts of southern Europe, and above 65° over northern Russia. Lowest, (1) 49° at Bodö, Christiansund, Skudenes, and Karlstad, and 50° at Sumburgh Head; (2) 50° at Munich and 51° at Belfort. Rising during day to 70° and upwards in many parts of Great Britain and France, and to 77° in London. Exceeding 80° over Spain and southern Italy and reaching 99° at Madrid.

Barometer and Wind.

8 a.m.



6 p.m.



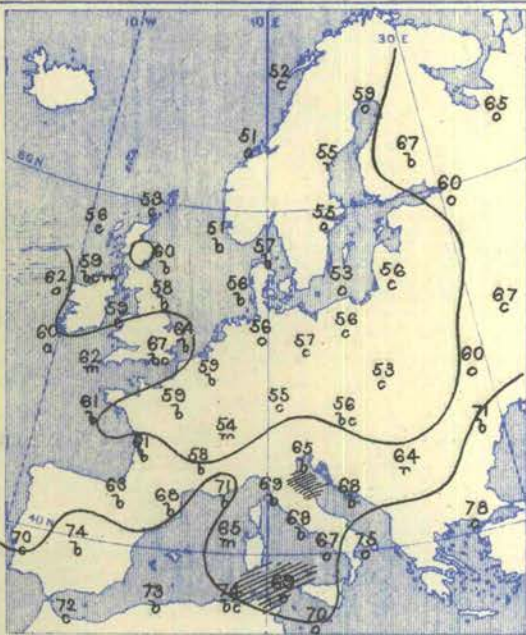
Wind light from the Westward or South-Westward over our Islands generally, but Northerly or North-Easterly over the greater part of France. Strong to a gale from the North-Westward on the eastern shores of the North Sea, and moderate to fresh from the same quarter in Germany; light from the South-Westward over the greater part of Russia; Northerly or North-Easterly over the Gulf of Bothnia. North-Westerly in the south of France with a gale at Toulon; South-Westerly in Italy—subsequently veering up the North-Westward on our own northern coasts; gale from the same quarter springing up at Wisby, and strong Westerly winds at the Baltic stations generally.

Barometer highest, 30.1 ins. and upwards over the south-west of our Islands, the Channel and the north of France; 30.0 ins. and upwards in an anticyclone covering nearly the whole of Ireland, England, France, and Spain. Lowest, 29.3 ins. and less in a well marked depression lying over the south of Sweden; 29.6 ins. and less in a deeper system over the Gulf of Genoa. Swedish depression subsequently moving slowly south-eastwards; disturbance over Gulf of Genoa moving eastwards and partially filling up.

Friday, 15th July.

Temperature and Weather.

8 a.m.

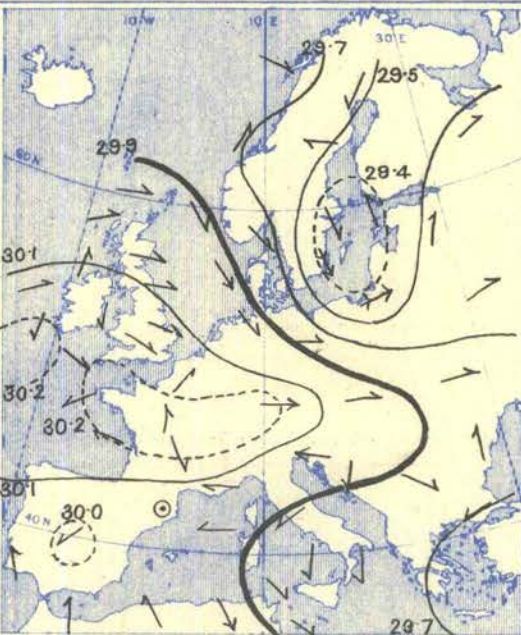


Weather in morning fine over western and southern Europe generally, but dull in the south of Ireland, and foggy or misty at the mouths of the English and Bristol Channels. Cloudy or dull in most parts of Sweden, Germany, and Russia, with rain at Hernösand, as well as at Hernanstadt. A little rain falling later in the north of Russia, and larger amounts in Sweden—as much as 1.5 ins. at Hernösand.

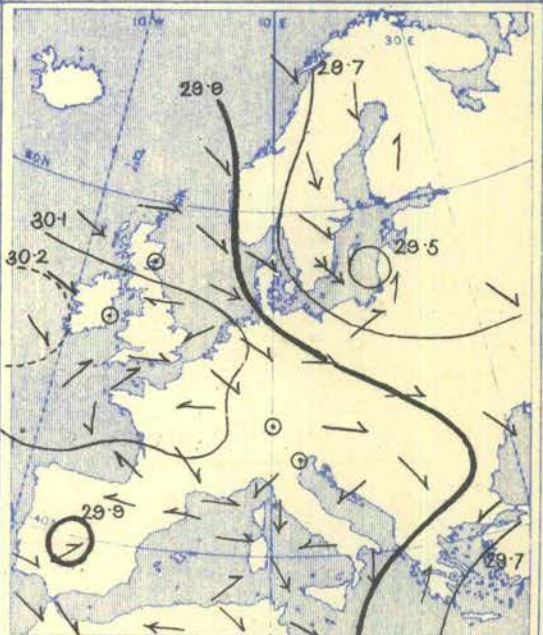
Temperature risen in most of the western countries, changed rather irregularly elsewhere. Morning readings highest, 78° at Constantinople, 77° at Barcelona, 75° at Brindisi, and 74° at Madrid and La Calle; above 70° in many parts of southern Europe, and above 65° in the central and south-eastern parts of England. Lowest, (1) 51° at Christiansund and Skudenes, 52° at Bodö, and 53° at Karlstad, Wisby, and Sumburgh Head; (2) 52° at Warsaw, 53° at Lemberg, and 54° at Breslau and Munich. Rising during day to between 75° and 80° in many parts of Great Britain, and to 82° in London. Exceeding 80° over the greater part of southern Europe, and reaching 99° at Madrid.

Barometer and Wind.

8 a.m.



6 p.m.



Wind light from the Westward (South-West to North-West) over our Islands and the Netherlands. Moderate from the Eastward or North-Eastward over the Gulf of Bothnia; fresh to strong from the North-Westward over Denmark and the south of Scandinavia; with a gale at Wisby; Westerly gales reported at some of the other Baltic stations, and moderate breezes from the same quarter over Germany and Austria; Southerly over northern Russia. Light from the Eastward or North-Eastward over the Spanish Peninsula and the west and south of France; Northerly over the greater part of Italy and the Adriatic. No important change occurring later.

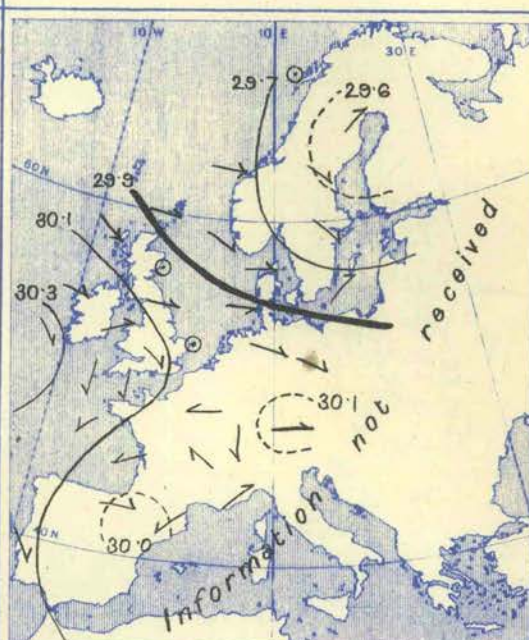
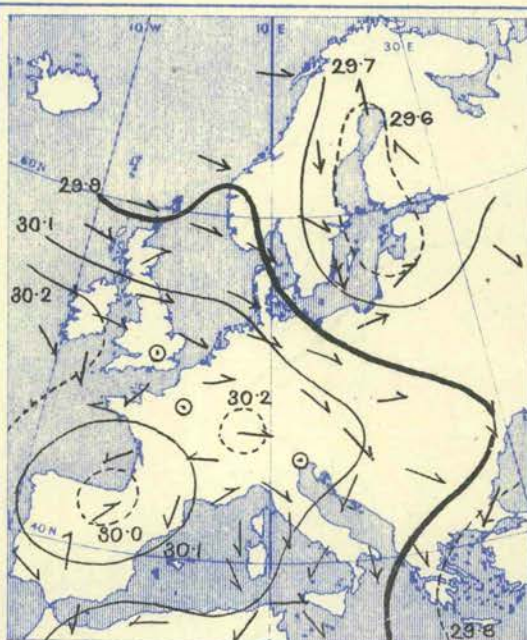
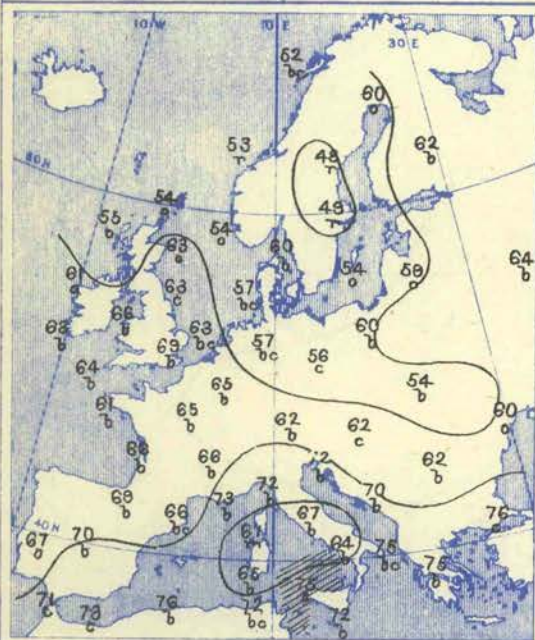
Barometer highest, 30.0 ins. to 30.2 ins. or a little more in an anticyclone covering nearly the whole of western and central Europe. Lowest, 29.4 ins. and less in a well-marked depression with its centre near the mouth of the Gulf of Finland; 29.7 ins. and less in a shallow area over Asia Minor. Depression filling up partially during day, but small shallow disturbance forming over central Spain.

Saturday, 16th July.

Barometer and Wind.

8 a.m.

6 p.m.



Wind light to moderate from the Westward in the northern parts of our Islands, and from the North-Westward or Northward in the south of Ireland; variable in the south of England. Easterly or North-Easterly over the greater part of France, but Westerly or South-Westerly over the Spanish Peninsula. North-Westerly over Scandinavia and Denmark, with a gale at Wisby; light to moderate from the Westward or North-Westward over Germany and Austria; Northerly in Italy. No important change occurring over western Europe during day.

Barometer highest, 30.1 ins. to 30.2 ins. and upwards in an anticyclone covering Ireland, England and the western and central parts of the Continent as a whole, but below 30.0 ins. in a shallow depression over the south-west of France. Lowest, 29.6 ins. and less in a depression over the Gulf of Bothnia, Finland and the Baltic Provinces; 29.9 ins. and less in another disturbance to the northward of our Islands. Depression off north of Scotland subsequently moving eastwards over the northern parts of Scandinavia.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

On the 11th the anticyclone moved away temporarily to the westward, while a large shallow depression advanced from the Atlantic over the northern parts of Scandinavia. Small secondary systems were also developed further southward, and the wind over north-western Europe backed to the Westward, with cloudy weather, and showers in most districts. Later on, as the depression in the far north moved eastwards, the anticyclone again spread to all the more western countries, and the weather over Great Britain and France became warm for the time of year the thermometer in many places exceeding 80° on the 15th and 16th. Over northern Europe, however, the conditions were affected by a secondary depression which formed over the south of Sweden on the 13th, and which afterwards increased considerably in depth and moved eastwards. These changes were attended by heavy rains in many parts of Sweden, and in the rear of the disturbance a gale from north-west sprang up over Denmark, the Baltic, and the south of Scandinavia.

Over southern Europe the week was, upon the whole, fine, warm and dry, but on the 14th, when a depression was formed, temporarily, over the Gulf of Genoa, a very heavy fall of rain occurred over northern Italy and the neighbouring parts of Austria.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 158.

STATIONS	No. of Hours recorded.	Differ- ence from the Mean for the Week.	Percent- age of possible Duration.	Differ- ence from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Differ- ence from the Mean for the Week.	Percent- age of possible Duration	Differ- ence from the Mean for the Week.
DEERNES (Orkney Islands) . . .	41.2	?	33	?	WESTBOURNE (Emsworth) . . .	54.3*	+ 7.5	48*	+ 6
STRATHPEFFER SPA	52.6	+21.6	43	+18	WATERGATE (Emsworth) . . .	47.3	?	42	?
EDINBURGH	43.6	+11.8	37	+10	BRIGHTON	56.4	+ 6.2	50	+ 4
MORPETH	55.5	?	48	?	EASTBOURNE	57.7	+ 8.2	52	+ 7
NEWCASTLE-ON-TYNE	53.2	?	46	?	VENTNOR HOSPITAL	67.8	?	61	?
OSWALDKIRK (Yorkshire) . . .	? 53.5	? 19.0	? 47	? +17	SOUTHPORT	64.2	?	56	?
HOLLESLEY BAY	59.2	?	52	?	COLWYN BAY	59.3	?	52	?
SHEFFIELD	61.4	?	54	?	TENBY	62.8*	+14.3	56*	+14
WORKSOP	57.6	+22.3	51	+20	NEWQUAY	54.0	+ 4.2	49	+ 5
THURCASTON (Leicestershire) .	65.4	+28.8	57	+25	TORQUAY	71.8*	+24.8	65*	+21
PLUMSTEAD COMMON	34.7	?	31	?	GUERNSEY	82.3*	+28.9	76*	+27
MARGATE	47.9	+ 5.9	43	+ 5					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 29.]
Third Series.

WEEK ENDING SATURDAY, JULY 23RD, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 172.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	72	38	60.1	46.3	52.8	2 below	Day-deg. 76	Day-deg. - 7	Day-deg. 0	Day-deg. 0	Day-deg. 1033	Day-deg. +130	Day-deg. 395	Day-deg. - 228
	1. SCOTLAND, EAST	75	33	65.6	47.3	55.8	1 below	97	- 4	0	0	1220	+ 94	427	- 222
	2. ENGLAND, N.E.	75	36	67.3	50.6	58.4	0 (average)	115	+ 3	0	0	1281	+120	333	- 216
	3. ENGLAND, EAST	78	39	70.0	52.2	60.5	0 (average)	130	+ 6	0	0	1438	+ 42	410	- 207
	4. MIDLAND COUNTIES	77	39	69.8	52.5	60.6	1 above	130	+10	0	0	1461	+ 34	404	- 215
5. ENGLAND, SOUTH	82	44	70.6	55.9	62.7	2 above	145	+15	0	0	1603	+ 83	234	- 243	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	70	39	64.5	50.7	57.1	0 (average)	106	+ 3	0	0	1326	+131	245	- 217
	7. ENGLAND, N.W.	73	44	66.0	54.6	59.9	1 above	125	+12	0	0	1398	+123	215	- 244
	8. ENGLAND, S.W.	78	47	67.9	55.5	61.3	2 above	135	+17	0	0	1572	+118	205	- 156
	9. IRELAND, NORTH	79	43	65.4	53.7	59.2	2 above	120	+16	0	0	1413	+121	227	- 168
	10. IRELAND, SOUTH	73	52	67.5	57.0	61.8	3 above	139	+26	0	0	1678	+191	165	- 134
—CHANNEL ISLANDS.	77	54	69.2	59.3	63.9	3 above	153	+25	0	0	1865	+234	55	- 93	

DISTRICTS. (See p. 172.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10ths of in. 8	10ths of in. 1 less	145	+15	Ins. 30.5	+ 6.2	36	+ 7	30	+ 7	761	+42	28	+ 1	
	1. SCOTLAND, EAST	2	4	3 less	108	+ 2	13.1	- 2.4	41	+ 7	35	+ 5	837	+30	32	+ 1	
	2. ENGLAND, N.E.	2	4	3 less	99	0	10.5	- 2.3	36	- 3	31	- 2	780	+ 6	30	0	
	3. ENGLAND, EAST	3	2	5 less	92	- 4	10.4	- 2.4	39	- 5	35	- 4	870	- 68	33	- 2	
	4. MIDLAND COUNTIES	3	5	2 less	90	- 5	9.6	- 4.5	37	- 2	33	- 1	846	+19	33	+ 1	
5. ENGLAND, SOUTH	2	2	4 less	86	- 5	10.0	- 4.0	41	- 3	38	- 2	862	- 67	34	- 3		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	5	4 less	125	+14	20.1	- 3.8	35	- 3	30	- 2	878	+58	35	+ 3	
	7. ENGLAND, N.W.	4	3	5 less	105	+ 3	16.9*	+ 0.8	32	- 5	28	- 4	928	+98	36	+ 4	
	8. ENGLAND, S.W.	3	4	4 less	98	- 5	15.3	- 3.4	34	-11	31	-10	1061	+43	41	+ 2	
	9. IRELAND, NORTH	4	5	4 less	133	+13	18.1	- 0.2	23	- 9	20	- 8	823	+ 20	31	0	
	10. IRELAND, SOUTH	4	5	2 less	101	- 8	17.3	- 2.5	29	- 5	25	- 5	918	+ 17	35	0	
— CHANNEL ISLANDS.	5	4	3 less	112	+ 3	12.4	- 3.2	48	- 2	44	- 2	1155	+ 7	45	+ 1		

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period was somewhat less settled than that of the week immediately preceding it; a good deal of cloud prevailed at times, and rain was occasionally experienced in all parts of the Kingdom. Thunderstorms occurred in some parts of Ireland and central England on Friday, the accompanying rainfall being exceptionally heavy in portions of our north Midland counties.

Temperature was again slightly above the mean in most districts, but just equalled it in England N.E. and E. and in Scotland W., and was a little below it in Scotland N. and E. The highest of the maxima were recorded either on the 17th or 18th over England, but later in the week in Ireland and Scotland; they ranged from 82° in England S., and from 79° in Ireland N., to 73° in England N.W. and Ireland S., to 72° in Scotland N., and to 70° in Scotland W. The lowest of the minima, which were mostly recorded about the middle of the week, ranged from 33° in Scotland E., 36° in England N.E., and 38° in Scotland N., to 47° in England S.W., 52° in Ireland S., and 54° in the Channel Islands.

Rainfall was less than the mean in all districts. In the south and east of England the fall was very slight, but at York and Bawtry the amounts recorded during the thunderstorm noted above were 1.57 ins. and 2.15 ins. respectively.

Bright Sunshine was less than the mean in nearly all districts, but rather above it in Scotland N. and E. The percentage of the possible duration ranged from 44° in the Channel Islands, and 38° in England S., to 25° in Ireland S., and to 20° in Ireland N.

Barometer and Wind.—The distribution of pressure over our Islands was again mainly anti-cyclonic, but a depression passed eastwards over Scotland on the 17th and 18th, and another system, whose secondaries passed over Ireland and England, appeared in the north on the 22nd. The winds consequently varied considerably in direction, being mostly from between South-West and West or North-West over the country as a whole, but occasionally Easterly or North-Easterly in the south and south-east.

II.—DATA from which the SUMMARY on page 169 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.	
				Of Highest each day.	Of Lowest each day.	For whole of each day.										Above 42° F.
0. SCOTLAND, N.	Sumburgh Head	61	44	54.6	45.9	50.0	- 3.0	56	0	4	0.24	- 0.34	*	*	*	*
	Stornoway	66	43	58.4	46.9	52.3	- 2.2	72	0	2	0.35	- 0.37	27.1	- 5.9	23	- 4
	Wick	67	40	60.4	45.3	52.3	- 2.9	72	0	4	0.76	+ 0.17	*	*	*	*
	Lairg	71	40	60.5	45.4	52.4	- 1.7	73	0	3	0.53	- 0.21	*	*	*	*
	Glencarron	64	39	59.5	45.2	51.9	- 2.6	69	0	5	1.96	+ 0.55	*	*	*	*
	Fort Augustus	72	38	64.5	46.7	55.0	- 1.3	91	0	3	0.56	- 0.19	34.2	+13.9	29	+12
	Fort William	66	42	62.8	48.9	55.4	- 1.1	94	0	4	1.11	- 0.12	45.0	+16.5	38	+14
1. SCOTLAND, E.	Nairn	75	40	64.6	46.7	55.0	- 2.4	91	0	4	0.64	- 0.04	*	*	*	*
	Aberdeen	71	38	63.9	47.7	53.2	- 1.7	92	0	2	0.22	- 0.48	48.2	+11.5	41	+10
	Braemar	68	33	62.1	43.4	52.1	- 2.4	71	0	2	0.24	- 0.43	36.5†	+ 4.5†	31†	+ 4†
	Ochertyre	73	40	69.1	48.1	57.9	- 0.3	111	0	1	0.35	- 0.45	*	*	*	*
	Leith	73	47	67.6	50.6	58.5	- 0.2	116	0	2	0.33	- 0.35	*	*	*	*
2. ENGLAND, N.E.	Marchmont	73	44	66.0	47.4	56.1	0.4	99	0	2	0.53	- 0.30	45.0	+ 7.9	39	+ 7
	Alnwick Castle	75	42	68.6	49.7	58.5	+ 1.3	116	0	3	0.10	- 0.58	*	*	*	*
	Durham	75	36	68.6	48.2	57.7	- 1.2	110	0	3	0.29	- 0.44	34.4	- 1.3	30	- 1
	Shields	75	45	66.0	50.7	57.8	+ 0.1	111	0	3	0.07	- 0.57	*	*	*	*
	Scarborough	72	41	66.6	49.7	57.6	- 1.5	109	0	1	0.07	- 0.61	38.1	?	34	?
3. ENGLAND, E.	York	74	42	68.7	51.1	59.3	- 0.3	121	0	1	1.57	+ 0.89	35.1	- 1.9	31	- 1
	Spurn Head	71	50	65.4	54.4	59.5	- 0.2	123	0	1	0.15	- 0.29	*	*	*	*
	Hillington	76	39	71.2	50.7	60.2	- 0.4	127	0	1	0.04	- 0.70	35.3	- 6.9	32	- 5
	Yarmouth	75	46	66.1	54.0	59.6	- 0.9	123	0	2	0.45	- 0.23	*	*	*	*
	Geldeston	77	39	70.4	51.1	60.1	- 0.3	127	0	2	0.15	- 0.49	37.4	- 8.1	34	- 7
	Cambridge	78	43	71.9	52.3	61.4	0.0	136	0	4	0.25	- 0.36	39.5	- 3.3	36	- 2
4. MIDLAND COUNTIES	Rothamsted	76	42	70.5	52.7	61.0	+ 0.6	133	0	4	0.18	- 0.48	41.3	- 4.0	37	- 4
	Bawtry (Hesley Hall)	77	39	71.3	50.7	60.3	+ 0.1	128	0	4	2.19	+ 1.54	*	*	*	*
	Loughborough	77	45	71.3	54.0	62.1	+ 0.7	141	0	3	0.23	- 0.23	*	*	*	*
	Stamford (Duddington)	75	42	70.6	52.3	60.8	- 0.4	132	0	3	0.16	- 0.48	*	*	*	*
	Cheadle	72	48	66.0	51.8	58.4	+ 0.5	115	0	2	0.48	- 0.26	*	*	*	*
	Shirley (near Solihull)	74	45	69.1	52.9	60.4	+ 0.4	129	0	3	0.32	?	*	*	*	*
	Churchstoke	72	46	68.5	51.8	59.6	+ 1.5	123	0	3	0.18	- 0.43	34.5	- 3.8	31	- 3
	Hereford	76	48	70.6	53.4	61.4	+ 1.2	136	0	4	0.40	- 0.15	*	*	*	*
	Cirencester	77	45	70.7	52.3	60.9	+ 1.8	132	0	3	0.18	- 0.54	40.3	- 0.9	36	- 1
	Oxford	76	46	70.3	53.6	61.4	+ 0.5	136	0	2	0.15	- 0.48	40.4	- 1.4	36	- 2
5. ENGLAND, S.	London	81	45	74.1	55.4	64.1	+ 1.8	155	0	2	0.28	- 0.30	34.6	- 4.2	31	- 4
	North Foreland	79	51	69.9	55.6	62.3	+ 1.7	142	0	3	0.31	?	*	*	*	*
	Cranley	78	44	72.9	53.6	62.6	+ 0.7	144	0	3	0.18	?	*	*	*	*
	Dungeness	73	54	68.0	57.0	62.1	+ 0.6	141	0	1	0.16	- 0.32	*	*	*	*
	Hastings (St. Leonards)	74	48	67.8	56.6	61.8	+ 1.1	139	0	2	0.26	- 0.34	49.4	- 0.5	45	0
	Southampton	82	49	73.3	56.2	64.2	+ 2.2	155	0	2	0.16	- 0.51	34.7	-11.4	32	-10
	Hurst Castle	74	55	69.9	58.9	64.0	+ 2.3	154	0	2	0.09	- 0.49	*	*	*	*
	Shaftesbury	77	49	68.9	53.5	60.7	+ 2.1	131	0	3	0.14	- 0.61	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	67	46	64.8	48.0	55.8	- 1.2	97	0	3	0.95	- 0.29	*	*	*	*
	Glasgow	69	49	64.7	52.3	58.1	+ 0.9	113	0	2	0.45	- 0.37	34.4	+ 2.4	30	+ 3
	Ardrossan	64	47	62.7	52.3	57.1	- 0.8	106	0	3	0.18	- 0.52	*	*	*	*
	Glenlee	70	39	65.6	48.5	56.5	- 1.0	102	0	3	0.50	- 0.50	*	*	*	*
	Gilcrux (Cumberland)	68	41	63.9	50.7	56.8	- 0.9	104	0	3	0.55	?	32.9	?	29	?
	Douglas (Isle of Man)	70	47	65.0	52.4	58.3	+ 1.1	114	0	5	0.20	- 0.52	36.3	- 8.5	32	- 7
7. ENGLAND, N.W.	Stonyhurst	68	46	64.1	53.3	58.3	- 0.1	114	0	5	0.75	- 0.31	27.8	-10.4	25	- 8
	Blackpool	71	44	66.4	54.2	59.9	+ 0.4	125	0	4	0.16	- 0.62	34.6	- 5.5	31	- 4
	Manchester (Prestwich)	73	44	66.2	52.8	59.0	+ 0.2	119	0	5	0.36	- 0.54	28.2	?	25	?
	Liverpool Obsy. (Bidston)	70	51	66.9	55.4	60.8	+ 1.0	132	0	3	0.08	- 0.64	*	*	*	*
	Llandudno	71	53	66.7	56.7	61.4	+ 1.2	136	0	5	0.14	- 0.49	38.1	+ 0.1	34	0
	Holyhead	69	53	65.4	55.3	60.0	+ 1.1	126	0	3	0.19	- 0.40	*	*	*	*
8. ENGLAND, S.W.	Llandoverly	77	48	70.6	52.9	61.1	+ 2.1	134	0	3	0.43	- 0.55	*	*	*	*
	Pembroke	65	55	62.9	50.1	59.3	+ 0.6	121	0	2	0.40	- 0.23	39.7	- 5.4	33	- 4
	Clifton	75	53	68.9	57.5	62.8	+ 2.3	146	0	1	0.26	- 0.51	*	*	*	*
	Arlington (N. Devon)	71	50	66.0	53.9	59.5	+ 1.0	123	0	4	1.03	- 0.15	*	*	*	*
	Cullompton	78	47	71.1	53.8	61.9	+ 1.1	139	0	3	0.18	- 0.53	27.2	-12.0	25	-11
	Falmouth	73	57	68.5	58.2	63.0	+ 2.7	147	0	3	0.36	- 0.40	38.8	- 0.5	36	- 8
	Plymouth	77	54	69.7	56.6	62.7	+ 1.4	145	0	3	0.15	- 0.57	31.7	-12.0	27	-13
	Prawle Point	72	51	65.4	55.3	60.0	+ 0.8	126	0	5	0.28	- 0.33	*	*	*	*
9. IRELAND N.	Malin Head	66	53	60.7	54.6	57.4	+ 0.4	108	0	3	0.15	?	*	*	*	*
	Londonderry	79	44	68.6	53.5	60.5	+ 2.4	130	0	4	0.21	- 0.64	*	*	*	*
	Edenfel (Omagh)	71	44	65.3	54.0	59.3	+ 2.6	121	0	4	0.47	- 0.37	*	*	*	*
	Belmullet	69	52	64.1	56.0	59.8	+ 2.1	125	0	4	0.50	- 0.39	*	*	*	*
	Markree Castle	71	47	66.4	54.2	59.9	+ 3.0	125	0	4	1.10	+ 0.19	26.7	- 2.3	24	- 2
	Armagh	70	43	65.4	51.3	57.9	+ 0.3	111	0	4	0.52	- 0.20	18.3	-13.6	16	-12
	Donaghadee	71	49	65.1	53.9	59.1	+ 1.6	120	0	5	0.36	- 0.34	*	*	*	*
	Edgeworthstown	71	50	67.7	52.1	59.4	+ 2.2	122	0	3	0.51	- 0.39	*	*	*	*
10 IRELAND S.	Dublin	73	54	68.1	57.3	62.3	+ 2.6	142	0	5	0.61	- 0.04	36.3	+ 0.1	32	0
	Parsonstown	72	53	67.9	56.3	61.7	+ 3.4	138	0	3	0.35	- 0.40	27.2	- 3.6	24	- 3
	Kilkenny	72	52	68.1	55.9	61.6	+ 3.0	137	0	2	0.17	- 0.44	*	*	*	*
	Roche's Point	72	56	67.4	57.9	62.3	+ 2.6	142	0	3	0.95	+ 0.17	*	*	*	*
	Valencia	71	53	65.7	57.1	61.1	+ 2.4	134	0	6	0.22	- 0.75	22.4	-12.4	20	-11
	Killarney	70	54	67.5	57.3	62.0	+ 3.7	140	0	4	0.87	?	*	*	*	*
	Foynes												*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	73	58	68.7	59.3	63.7	+ 3.3	152	0	3	0.16	- 0.44	42.6	?	39	?
	Jersey	77	54	69.7	59.3	64.1	+ 1.7	155	0	6	0.55	- 0.05	48.9	- 3.0	45	- 3

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

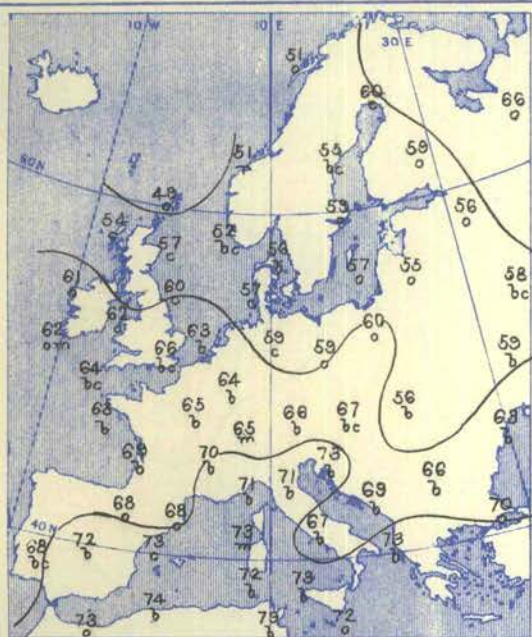
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 17th July.

Temperature and Weather.

8 a.m.

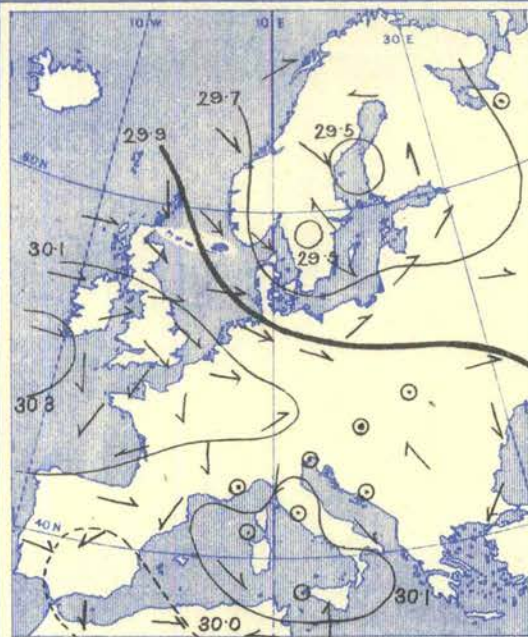


Weather in morning fine and bright over the Mediterranean, south-eastern, central and western Europe, including the greater part of England and the east of Scotland; dull and showery over the western parts of Ireland, Scotland and Norway. Rain falling later over the northern and north-western parts of our area, as well as over Denmark and northern Europe, but not over the southern and eastern parts of the Kingdom. A considerable local fall at Lemberg.

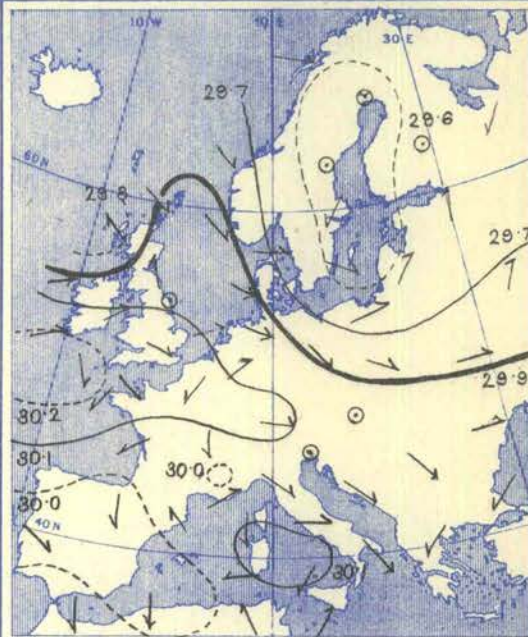
Temperature risen over England, fallen over Scotland and Norway. Morning readings highest, (1) 81° at Aumale, above 70° at the Mediterranean and Adriatic stations generally, and above 60° over France, England and Ireland; (2) 66° at Archangel, 60° at Haparanda. Lowest, 49° at Sumburgh Head, 51° to 52° in the west of Norway, 54° at Stornoway and Karlstad, 55° at Wick, Riga and Odessa. Rising later to between 70° and 77° over England and the Channel Islands, to 81° at Paris and Nice to 89° at Lyons, to 86° at Rome and Sanguinaire, to 91° at Algiers, and 106° at Aumale.

Barometer and Wind.

8 a.m.



6 p.m.



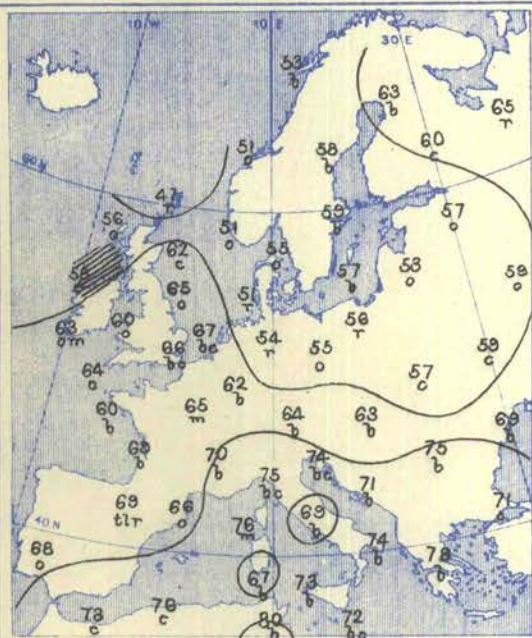
Wind (1) light to moderate and anticyclonic over England, France, south Germany, and the whole of southern Europe and the Mediterranean; (2) cyclonic over northern Europe; strong from North-West over the eastern shores of the North Sea, Westerly (moderate) over the Baltic and north Germany, South-Westerly to Southerly over the north of Russia. Becoming South-Westerly in the north of Ireland later, and South-Easterly in the Hebrides and increasing considerably in force.

Barometer highest, 30.3 ins. and more in the south of Ireland, and exceeding 30.0 ins. all over our Islands, France, the Mediterranean and south Germany. Lowest, 29.5 ins. to 29.7 ins. in a rather complex depression over Scandinavia and Finland, and below 30.0 ins. over Asia Minor. Falling fast later at our most north-western stations and slightly over western Europe generally.

Monday, 18th July.

Temperature and Weather.

8 a.m.

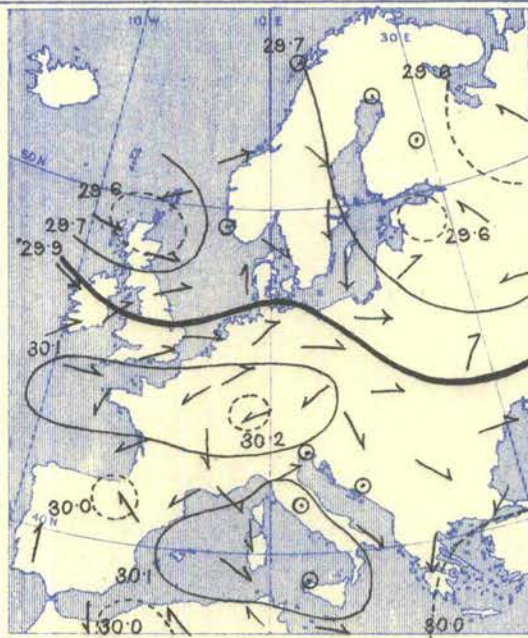


Weather in morning fine and bright over the Mediterranean, and nearly the whole of France, central and south-eastern Europe, changeable and rather unsettled over the northern and north-western countries, with rain at several of our own northern stations, as well as in Holstein, and at Neufahrwasser and Archangel. Rain falling later over all the northern and eastern parts of our Islands, and large quantities in Scandinavia, Denmark, and many parts of Russia.

Temperature in morning highest, 80° at La Calle, 78° at Patras, and exceeding 70° over the Mediterranean generally, 67° at Jersey and Roches Point, 66° over central England; 65° at Archangel. Lowest, 47° at Sumburgh Head, 51° at Wick, Christiansund, Skudesnaes and Fano, and 55° at Berlin. Rising to between 77° and 81° over the inland parts of England later, to 78° at Brussels, 82° at Belfort, and 84° at Paris and Palermo, and 104° at Aumale and Laghouat; but not exceeding 66° at Berlin.

Barometer and Wind.

8 a.m.



6 p.m.



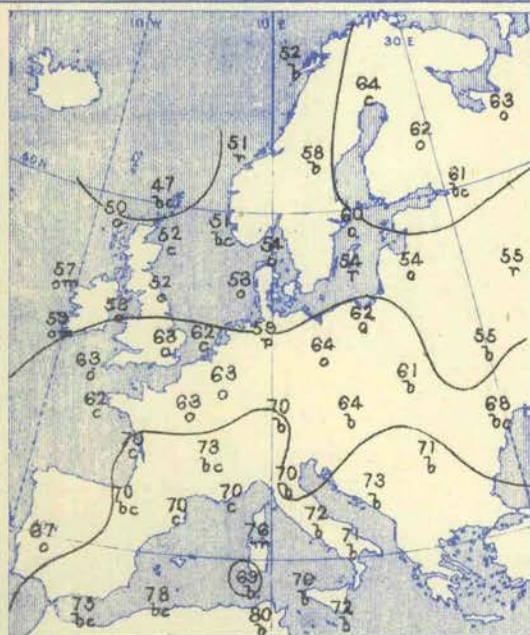
Wind exceedingly light and variable over all the southern countries; light to strong and variable in the north. (1) Westerly and South-Westerly over the British Islands, Southerly in Holstein, (2) Northerly over Sweden, Westerly at Neufahrwasser and Memel, but Easterly and very light over the north of Russia.

Barometer highest, 30.1 ins. and more to 30.0 ins. over the southern parts of our Islands, and the whole of the Mediterranean, Spain, France, the west and south of Germany and south-eastern Europe. Lowest, 29.6 ins. and less in three depressions—one over the north and north-east of Scotland, another over the Gulf of Finland, and a third over the north of Russia and the White Sea. The Scotch depression moving south-eastwards later, and barometer beginning to rise at our northern and north-western stations.

Tuesday, 19th July.

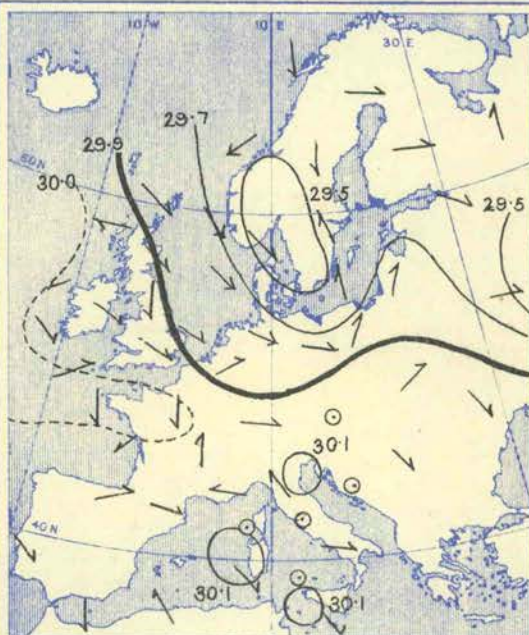
Temperature and Weather.

8 a.m.

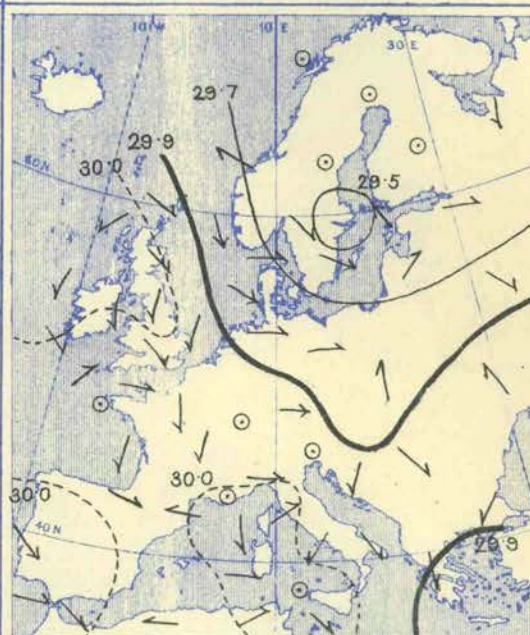


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over the British Islands generally, with rain at Liverpool, fog and mist in many parts of the Channel; fine over southern and south-eastern Europe, but unsettled generally in the north, and rainy in several places. Heavy rain falling later at Christiansund, showers in many parts of our Islands, and various parts of France and Belgium; thunder reported at Munich and Biarritz.

Temperature falling generally. Morning readings highest, (1) 80° at La Calle, and exceeding 70° at most of the Mediterranean stations, as well as over the southern parts of the Continent generally; 63° to 60° over the southern parts of England; (2) 60° to 64° over Finland and the north of Russia. Lowest, 47° at Sumburgh Head, 50° at Sarnoway, 51° at Christiansund and Skudenesnaes, 52° at Shields, 55° at York. Rising later to 70° at Dungeness, 71° in London and 73° at Scilly; to 77° at Wiesbaden, 78° at Paris, 86° at Lorient, 87° at Lyons, 88° at Sanguinaire, but not touching 60° in Scotland and the extreme north of Ireland.

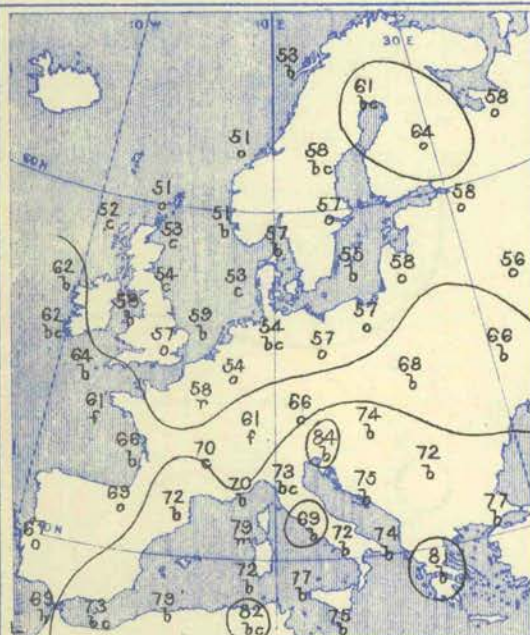
Wind (1) exceedingly light and variable over all the southern countries; (2) cyclonic from North-East, North-West, and West over our Islands, but of little strength; (3) cyclonic and strong over Scandinavia and Denmark—being Northerly at the western stations, Southerly in the east. North-Easterly winds spreading more over our Islands later, little change elsewhere.

Barometer highest, (1) 30.1 ins. and more to 30.0 ins. over southern and south-eastern Europe generally, and exceeding 30.0 ins. over the north-western half of France also. Lowest, 29.5 ins. and less in two depressions—one over central Russia, the other over the southern half of Scandinavia. Some very shallow local disturbances found over the British Islands and the south-west of France also. Rising decidedly over Norway and the northern parts of our Islands later, falling over France.

Wednesday, 20th July.

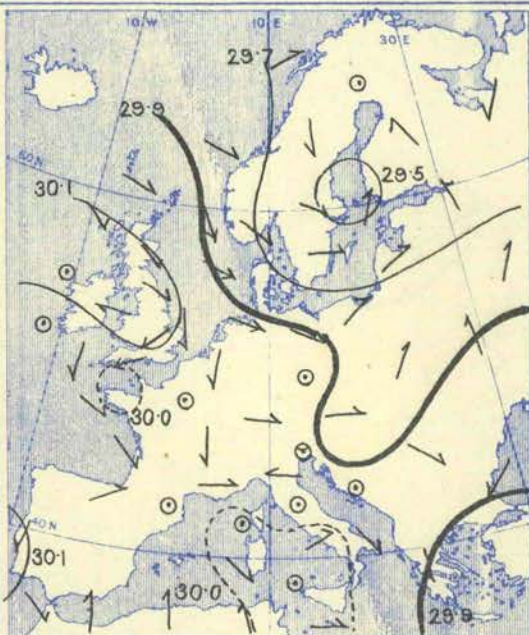
Temperature and Weather.

8 a.m.

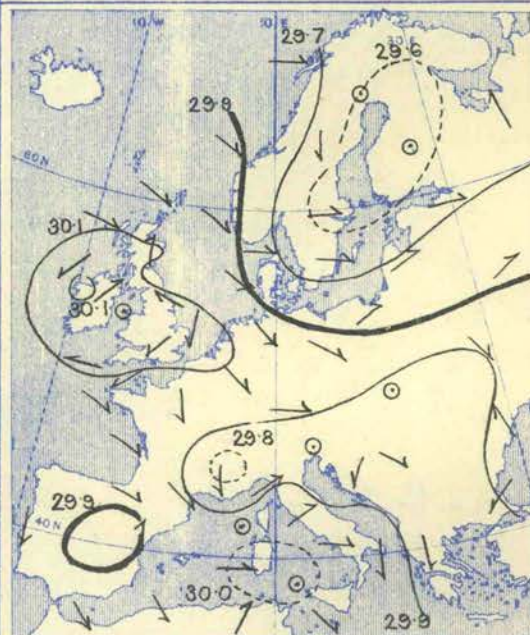


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning (1) fine and bright in the extreme north of Europe, fair over the British Islands as a whole, and very fine over the Mediterranean and south-eastern Europe; (2) dull and unsettled over central Europe and also over the northern half of France, with rain at several stations in those regions. Rain falling later over the Channel Islands, France, Germany, and Sweden, (heavily at Munich), and several Austrian and Russian stations, and a thunderstorm occurring at Lyons. A fresh fall setting in over the south of Ireland later.

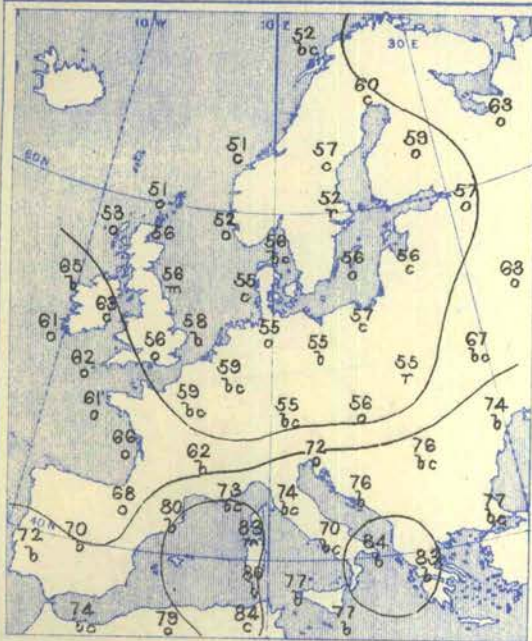
Temperature changing fitfully over the United Kingdom. Morning readings highest, (1) 84° at Trieste, 82° at La Calle, and 81° at Athens, and exceeding 70° over southern and south-eastern Europe generally; (2) above 60° at several of our southern and western stations; (3) 60° to 65° over the greater part of Finland. Rising later to 71° at Leith and Valencia, 72° at Parsonstown, 79° at Rochefort, 80° at Lyons, 90° at Perpignan and 91° at Cagliari. Succeeding night cool over Great Britain.

Wind (1) light in force and anticyclonic in direction over the British Islands and France; (2) Cyclonic over northern Europe, North-Westerly in Norway and Denmark, Westerly over Germany and the Baltic, Southerly to South-Easterly over Finland and blowing strongly in several places; (3) very light and variable over south-eastern Europe and the Mediterranean. Shifting to the Southward in the extreme south-west of Ireland later, but remaining very light.

Barometer highest, 30.1 ins. and more to 29.9 ins. in a complex anticyclonic system covering the British Islands and almost the whole of western Europe. Lowest, below 29.5 ins. in a depression having its centre near Stockholm; below 29.9 ins. in a secondary over Austria-Hungary, and below 30.0 ins. in a very shallow local disturbance over Brittany and the Channel Islands. Rising over the Continent and Great Britain later, but inclined to fall slightly in the west of Ireland.

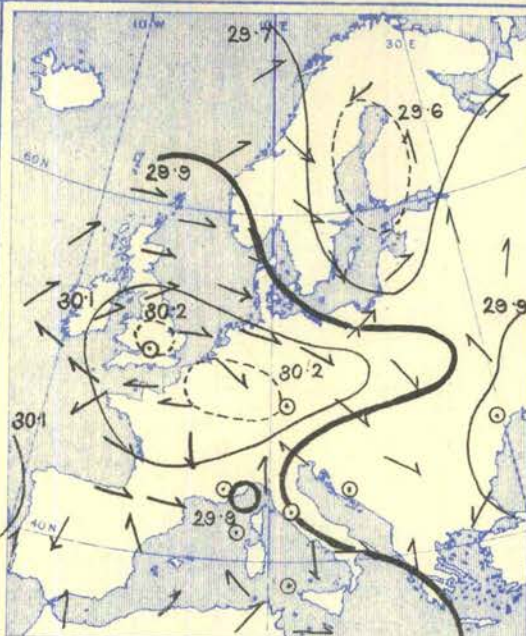
Temperature and Weather.

8 a.m.

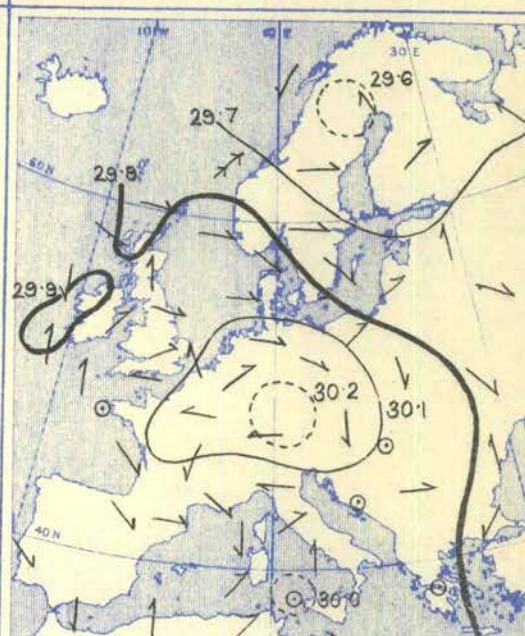


Barometer and Wind.

8 a.m.



6 p.m.

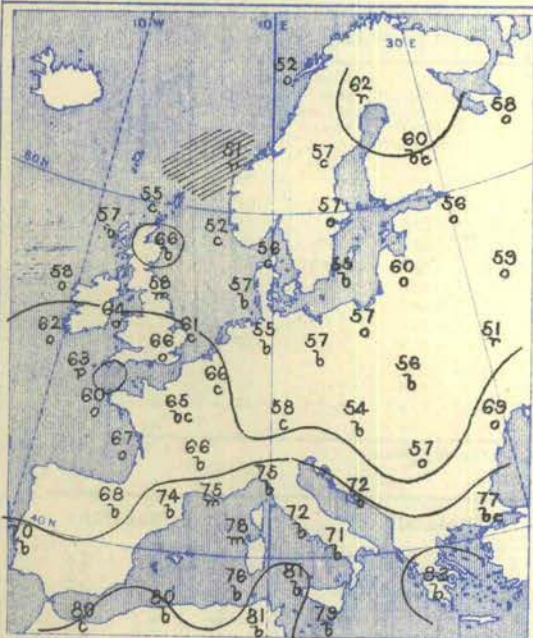


Temperature in morning highest, 84° at La Calle and Brindisi, 83° at Patras, and above 70° at almost all the stations in southern Europe; above 60° in the south and west of France and over many parts of Russia. Lowest, 51° at Christiansund and Sumburgh Head, 53° at Stornoway, 54° at Nairn and York, 55° at Fanø, Copenhagen and Berlin, 51° at Breslau, 52° at Warsaw. Rising later to between 70° and 75° over the greater part of England, to 73° at Paris, and 87° at Perpignan, 90° at Sicily, 95° at Palermo, and 104° at Laghouat, but not exceeding 68° at Berlin or Wiesbaden all day.

Barometer highest, 30.2 ins. and more to 29.9 ins. over the whole of central and western Europe, including the British Islands. Lowest, (1) below 29.6 ins. in a depression over Finland and the Gulf of Bothnia; (2) below 29.9 ins. over south-eastern Europe. Falling at all our western stations, and fall spreading eastwards during day.

Temperature and Weather.

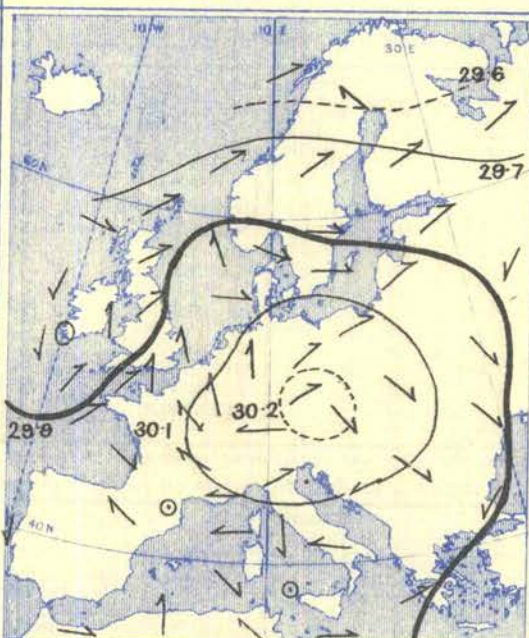
8 a.m.



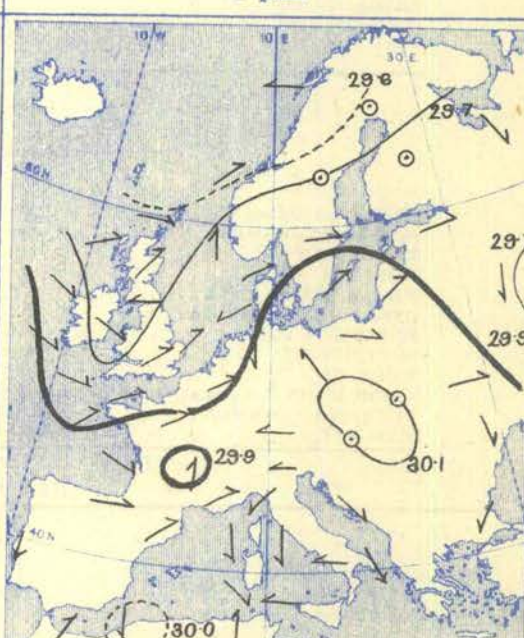
Temperature risen considerably over Great Britain and France. Morning readings highest, 83° at Patras, 81° at Palermo, 80° at Algiers, above 80° over France and the greater part of our Islands. Lowest, 51° at Christiansund, 52° at Skudenes, 55° at Sunburch Head, and below 60° over the northern parts of the British Islands, Denmark and north Germany. Rising later to between 70° and 75° over England and the east of Scotland, to 75° at Berlin, 81° at Brussels, Nice and Perpignan, and 82° at Paris, 88° at Brindisi, 95° at Malta, and 104° at Laghout.

Barometer and Wind.

8 a.m.



6 p.m.



Wind (1) light and anticyclonic over the whole of western Europe, and light and very variable over the Mediterranean; (2) light to moderate and cyclonic over the British Islands and their neighbourhood—South-Westerly to South-Easterly over England and the Irish Sea, Northerly in the west of Ireland, South-Westerly and rather strong in the north-west of Norway. Shifting to the Northward and North-Westward at most of our western stations later, and veering to the south-west over the south-east of England.

Barometer 30·2 ins. and more to 30·0 ins. over central and western Europe and the Mediterranean. Lowest, (1) below 29·6 ins. over Lapland and the Kola Peninsula; (2) below 29·8 ins. over Scotland; (3) about 29·7 ins. in a small secondary system over the south of Ireland. The last named system moving north-eastwards later and the barometer beginning to rise at Valencia.

Saturday, 23rd July.

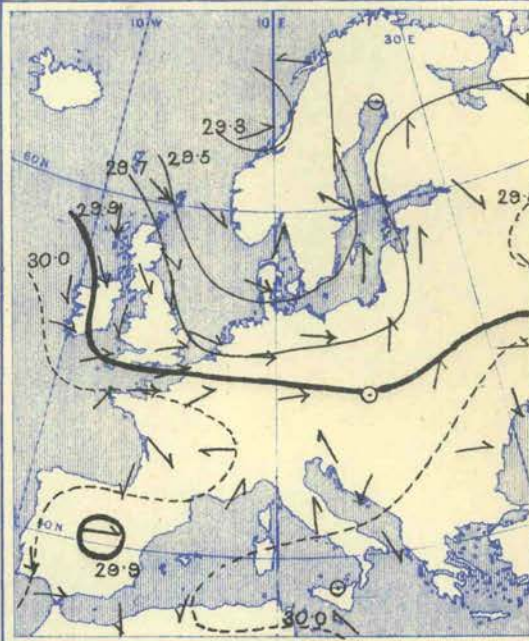
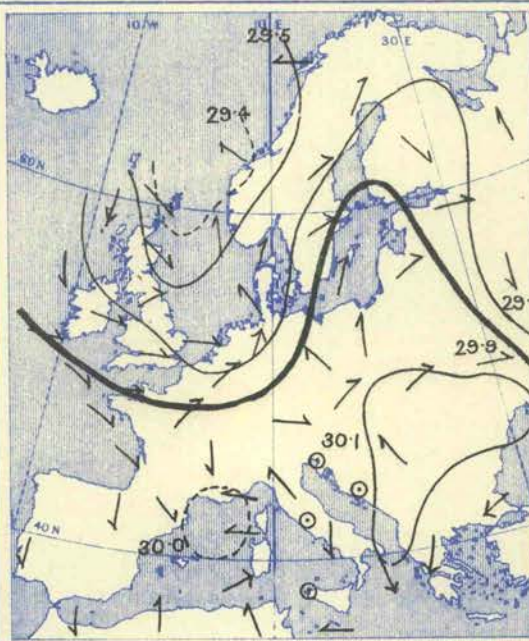
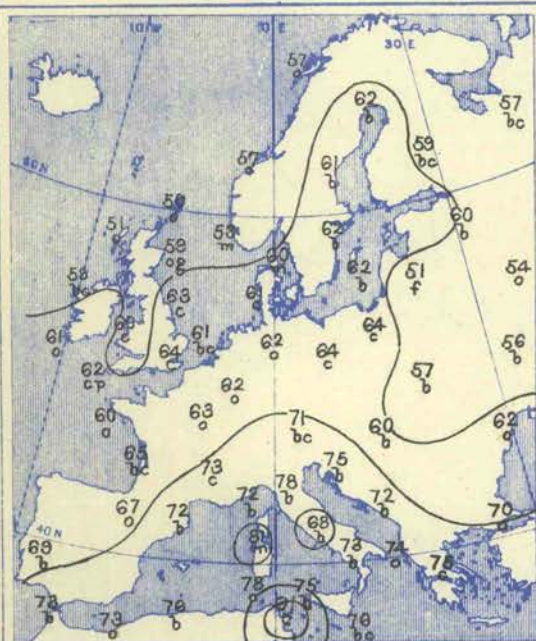
Temperature and Weather.

Barometer and Wind.

8 a.m.

8 a.m.

6 p.m.



Weather in morning changeable and unsettled over the countries lying to the eastward of the North Sea, as well as in several parts of France; improving slowly over our Islands, but still cloudy, with occasional showers. Heavy rain later in many parts of Scandinavia, Denmark, Germany, and the east of France, but only slight local showers over the British Isles. Thunderstorm occurring at Lyons in afternoon.

Temperatures in morning highest, (1) 91° at La Calle, 86° at Stax, and between 70° and 80° over the Mediterranean generally; above 60° over the greater part of the Continent, over England and the south of Ireland; (2) 63° even at Uleaborg. Lowest, 50° at Sumburgh Head, 51° at Stornoway, 53° at Skudesnaes, 55° at Nairn and Malin Head. Rising later to between 70° and 74° in many parts of England and the north of France, to 79° at Berlin, and 84° at Nice; reaching 90° or more at some of the Spanish and Italian stations, and touching 99° at Turin.

Wind light and very variable over the Mediterranean, south-eastern, and many parts of southern Europe; cyclonic and fresh over the north-western and northern countries—Northerly to Westerly over the British Islands, South-Westerly over the Netherlands; Southerly to South-Easterly over the Baltic and Denmark, Easterly on the northern coasts of Norway. Inclining to decrease in force over our Islands later, but not changing materially in direction. Veering to the Westward on the eastern shores of the North Sea.

Barometer highest, 30.1 ins. and more over south-eastern Europe, and above 30.0 ins. over the Mediterranean and nearly the whole of the southern countries; exceeding 29.3 ins. in a "ridge" over the Baltic and the north-west of Russia. Lowest, below 29.4 ins. in a depression over the Shetlands and west of Norway, and below 29.6 ins. in a secondary "hollow" over the North Sea. Depression subsequently moving eastward; barometer rising over our Islands, falling over Scandinavia and Denmark.

GENERAL NOTES.

At the commencement of this week pressure was highest over western and southern Europe, lowest over Sweden, Finland, and the Gulf of Bothnia, and a depression which appeared off the west of Scotland on Sunday morning brought rain to Scotland, and the north of Ireland, and England, and subsequently to the eastern shores of the North Sea.

Anticyclonic conditions then became prevalent in our Islands, and on Wednesday afternoon and evening a system of this kind lay completely over the United Kingdom, while the depression previously noted was passing away to Finland. The weather was then very fine over our Islands, but while the system which brought it moved south-eastwards to central Europe, Southerly breezes began to appear in the western parts of our Islands, ushering in a new shallow depression to our northern districts, and a secondary system, the centre of which was found over Ireland on Friday, and had reached the North Sea by Saturday morning. This brought rain and thunder to the Irish and English stations—the rain at York amounting to 1.57 ins., while in many other parts, both of our Islands and the Continent, the fall was considerable locally.

At the close of the week these disturbances also were passing off, and a new anticyclonic system was apparently advancing to the British Islands from the Atlantic.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 170.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	38.4	?	32	?	WESTBOURNE (Emsworth)	42.9*	- 4.1	39*	- 4
STRATHPEFFER SPA	34.0	+ 5.5	29	+ 5	WATERGATE (Emsworth)	29.5	?	27	?
EDINBURGH	34.4	+ 3.2	30	+ 3	BRIGHTON	42.4	- 6.8	39	- 7
MORPETH	44.7	?	39	?	EASTBOURNE	53.7	+ 4.3	49	+ 4
NEWCASTLE-ON-TYNE	33.2	?	29	?	VENTNOR HOSPITAL	49.2	?	45	?
OSWALDKIRK (Yorkshire)	28.1	- 6.3	25	- 5	SOUTHPORT	28.7	?	25	?
HOLLESLEY BAY	40.2	?	36	?	COLWYN BAY	33.8	?	30	?
SHEFFIELD	35.8	?	32	?	TENBY	31.3*	- 13.7	28*	- 12
WORKSOP	28.9	- 6.1	26	- 5	NEWQUAY				
THURCASTON (Leicestershire)	41.0	+ 4.4	37	+ 5	TORQUAY	34.9*	- 11.1	32*	- 10
PLUMSTEAD COMMON	30.1	?	27	?	GUERNSEY	53.3*	+ 0.3	49*	0
MARGATE	46.0	+ 3.1	42	+ 3					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the week.			Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees).		Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
Week ending May 7th, 1893	Scarborough	61	40	57.0	42.5	49.3	+ 2.3	51	—	1	Inches. 0.14	Inches. - 0.26	35.6	?	34	?
" " " " "	Blackpool	63	38	58.9	43.1	50.5	+ 1.8	60	—	5	0.38	+ 0.05	45.2	+ 7.2	43	+ 5
" " " " "	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	35.2	?	31	?
" " " " 14th, "	Scarborough	60	37	53.6	40.7	46.8	- 1.3	39	4	2	0.66	+ 0.24	38.0	?	35	?
" " " " "	Churchstoke	62	33	56.8	40.5	48.2	- 0.3	50	4	3	0.42	- 0.04	44.9	+ 4.9	42	+ 4
" " " " June 4th, "	Arlington	58	40	54.4	44.7	49.2	- 3.3	50	—	7	1.03	+ 0.27	—	?	—	?
" " " " "	Guernsey	—	—	—	—	—	—	—	—	—	—	—	51.7	?	47	?

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.VOL. XV. No. 30.]
Third Series.

WEEK ENDING SATURDAY, JULY 30TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

		Temperature of the Air.													
		Observed during the Week.						Accumulated.							
								For the Week.				From January 2nd, 1898.			
		Highest.	Lowest.	Averages of			Above or below the Mean for the Week.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		Daily Maxima.	Daily Minima.	Daily Mean.	Day-deg.	Day-deg.		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.		
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH .	75	37	61.3	46.3	53.3	2 below	79	- 6	0	0	1112	+124	395	-228
	1. SCOTLAND, EAST . .	76	35	65.4	46.9	55.5	2 below	95	- 8	0	0	1315	+ 86	427	-222
	2. ENGLAND, N.E. . .	73	40	64.3	49.3	56.2	3 below	99	-15	0	0	1380	+105	333	-216
	3. ENGLAND, EAST . .	76	46	65.9	51.8	58.4	3 below	115	-11	0	0	1553	+ 31	410	-207
	4. MIDLAND COUNTIES	78	36	68.1	49.6	58.2	2 below	113	- 8	0	0	1574	+ 26	404	-215
	5. ENGLAND, SOUTH .	79	43	68.6	54.3	61.0	0 (average)	133	+ 1	0	0	1736	+ 84	234	-243
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST .	70	36	65.2	47.6	55.8	2 below	97	- 8	0	0	1423	+123	245	-217
	7. ENGLAND, N.W. .	71	42	64.1	51.4	57.3	2 below	107	- 8	0	0	1505	+115	215	-244
	8. ENGLAND, S.W. .	80	37	68.3	53.9	60.6	1 above	130	+10	0	0	1702	+128	205	-156
	9. IRELAND, NORTH .	74	36	64.1	48.9	56.0	1 below	98	- 8	0	0	1511	+113	227	-168
	10. IRELAND, SOUTH .	72	40	65.3	53.4	59.0	0 (average)	119	+ 5	0	0	1797	+196	165	-134
	-CHANNEL ISLANDS-	73	54	68.4	58.4	63.0	1 above	147	+16	0	0	2012	+250	55	- 93

		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH .	3	6	10ths of in.	148	+13	31.1	+ 5.9	30	+10	26	+ 9	791	+52	29	+ 2	
	1. SCOTLAND, EAST . .	3	3	4 less	111	+ 2	13.4	- 2.9	41	+ 8	36	+ 7	878	+39	32	+ 1	
	2. ENGLAND, N.E. . .	2	3	4 less	101	- 2	10.8	- 2.7	39	+ 6	35	+ 6	819	+11	31	+ 1	
	3. ENGLAND, EAST . .	2	7	0 (average)	94	- 6	11.1	- 2.4	29	-16	27	-14	899	-83	33	- 3	
	4. MIDLAND COUNTIES	2	2	5 less	92	- 6	9.8	- 4.9	40	+ 2	37	+ 3	886	+22	33	+ 1	
	5. ENGLAND, SOUTH .	2	3	3 less	88	- 6	10.3	- 4.3	30	-15	28	-14	892	-83	34	- 3	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST .	2	3	7 less	127	+12	20.4	- 4.5	61	+27	54	+22	939	+ 84	36	+ 4	
	7. ENGLAND, N.W. .	2	1	7 less	107	+ 1	17.0	+ 0.1	62	+28	54	+26	990	+125	37	+ 4	
	8. ENGLAND, S.W. .	1	1	7 less	99	- 8	15.4	- 4.1	39	- 5	37	- 4	1101*	+ 40	41	+ 2	
	9. IRELAND, NORTH .	2	1	8 less	135	+11	18.2	- 1.0	40	+11	37	+10	863	+ 31	32	+ 1	
	10. IRELAND, SOUTH .	2	2	6 less	103	-10	17.5	- 3.1	42	+ 9	38	+ 8	960	+ 26	35	+ 1	
	- CHANNEL ISLANDS-	2	1	6 less	114	+ 1	12.5	- 3.8	53	+ 8	50	+ 7	1208	+ 15	45	0	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather was fair and dry during the earlier half of the week, but subsequently became unsettled and rainy, first in the north, and afterwards in all parts of the Kingdom. Thunderstorms were experienced in the east and south-east, the accompanying rain being heavy in places.

Temperature was below the mean in most districts, but just equal to it in England S. and Ireland S., and slightly above it in England S.W. and the Channel Islands. The highest of the maxima were registered, as a rule, on the 27th, and ranged from 80° in England S.W., 79° in England S., and 78° in the Midland counties, to 72° in Ireland S., 71° in England N.W., and 70° in Scotland W. The lowest of the minima were mostly recorded on the 30th, when they varied from 35° in Scotland E., 36° in the Midland counties, Scotland W., and Ireland N., and 37° in Scotland N. and England S.W., to 46° in England E., and to 54° in the Channel Islands.

Rainfall was less than the mean in nearly all districts, but just equal to it in England E. In all the western parts of the Kingdom the fall was very slight.

Bright Sunshine varied greatly in different districts, but exceeded the mean as a whole; it was, however, considerably below it in England E. and S. The percentage of the possible duration ranged from 54 in Scotland W. and England N.W., and 50 in the Channel Islands, to 28 in England S., 27 in England E., and 26 in Scotland N.

Barometer and Wind.—The distribution of pressure was anticyclonic during the earlier half of the period, with light and variable or North-Westerly winds. By Thursday, however, a well-defined depression had appeared over Scotland, and during that and the following day it moved rather quickly south-eastwards to Germany. The winds over our Islands consequently became Northerly very generally, and blew freshly or strongly in most places, and with the force of a slight gale at some of our northern and eastern stations. By the end of the week the barometer had risen decidedly, and the distribution of pressure had again become anticyclonic.

II.—DATA from which the SUMMARY on page 175 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	56	43	54.6	46.7	50.4	- 2.9	59	0	5	0.40	- 0.24	*	*	*	*
	Stornoway	62	45	53.1	46.9	52.1	- 2.6	71	0	5	0.67	- 0.08	12.8	-17.2	11	-15
	Wick	62	44	60.0	46.6	52.8	- 2.4	76	0	2	0.14	- 0.46	*	*	*	*
	Laing	75	37	65.3	44.2	54.0	- 0.1	84	0	3	0.13	- 0.63	*	*	*	*
	Glencarron	66	38	61.3	45.9	53.1	- 1.4	78	0	3	1.80	+ 0.32	*	*	*	*
	Fort Augustus	72	38	66.0	45.9	55.3	- 1.0	93	0	3	0.22	- 0.56	44.0	+26.3	39	+23
1. SCOTLAND, E.	Fort William	67	43	63.7	47.8	55.2	- 1.3	92	0	3	0.49	- 0.81	56.1	+30.6	49	+28
	Nairn	68	40	63.6	45.1	53.7	- 3.8	82	0	3	0.74	+ 0.02	*	*	*	*
	Aberdeen	64	43	60.3	49.9	54.7	- 2.3	89	0	4	0.17	- 0.61	23.3	-11.6	20	-10
	Braemar	69	35	65.0	45.2	54.4	- 0.1	87	0	4	0.15	- 0.54	46.5†	+16.7†	41†	+15†
	Ochertyre	76	39	72.1	48.6	59.5	+ 1.3	123	0	2	0.06	- 0.82	*	*	*	*
	Leith	72	42	67.4	48.4	57.2	- 1.7	106	0	2	0.20	- 0.50	*	*	*	*
2. ENGLAND, N.E.	Marchmont	69	41	64.1	44.1	53.4	- 3.1	80	0	2	0.18	- 0.70	49.3	+13.7	44	+12
	Alnwick Castle	70	40	64.6	45.9	54.6	- 2.5	88	0	4	0.44	- 0.28	*	*	*	*
	Durham	71	40	67.2	46.9	56.3	- 2.6	100	0	3	0.15	- 0.63	42.8	+ 7.8	38	+ 7
	Shields	69	42	61.9	48.7	54.8	- 3.2	90	0	2	0.55	- 0.12	*	*	*	*
	Scarborough	66	45	62.1	50.8	56.1	- 3.1	99	0	2	0.63	- 0.09	39.2	?	35	?
	York	73	40	68.0	49.3	58.0	- 1.5	112	0	1	0.05	- 0.65	38.3	+ 1.8	35	+ 2
3. ENGLAND, E.	Spurn Head	66	50	61.9	53.9	57.6	- 2.1	109	0	2	0.09	- 0.37	*	*	*	*
	Hillington	73	46	65.8	50.1	57.4	- 3.3	108	0	2	0.25	- 0.52	26.1	-15.9	24	-14
	Yarmouth	64	51	62.0	54.7	58.1	- 2.6	113	0	2	1.01	+ 0.33	*	*	*	*
	Geldeston	70	47	64.8	51.4	57.6	- 3.1	109	0	2	0.67	+ 0.04	28.4	-16.7	26	-15
	Cambridge	76	47	68.9	51.3	59.5	- 2.0	123	0	3	0.60	- 0.02	27.6	-14.9	26	-12
	Rothamsted	75	46	68.0	51.6	59.2	- 1.4	120	0	3	0.92	+ 0.25	31.3	-13.7	29	-13
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	73	41	68.7	49.9	58.7	- 1.6	117	0	2	0.07	- 0.58	*	*	*	*
	Loughborough	78	40	69.4	50.4	59.2	- 2.2	120	0	2	0.44	- 0.13	*	*	*	*
	Stamford (Duddington)	73	43	67.7	50.3	58.4	- 3.0	115	0	1	0.34	- 0.23	*	*	*	*
	Cheadle	71	39	64.9	47.9	55.8	- 2.3	97	0	2	0.36	- 0.41	*	*	*	*
	Shirley (near Solihull)	74	39	66.4	48.4	56.8	- 3.4	104	0	2	0.16	?	*	*	*	*
	Churchstoke	72	36	67.3	45.6	55.7	- 2.5	96	0	1	0.11	- 0.53	57.3	+19.7	53	+19
5. ENGLAND, S.	Hereford	75	41	69.9	50.3	59.4	- 0.8	122	0	1	0.14	- 0.44	*	*	*	*
	Cirencester	77	43	69.6	51.0	59.7	+ 0.6	124	0	1	0.09	- 0.69	39.6	- 1.4	37	0
	Oxford	75	43	69.3	52.9	60.5	- 0.3	130	0	2	0.14	- 0.50	39.3	- 2.7	36	- 3
	London	79	50	70.9	55.3	62.6	+ 0.3	144	0	2	0.25	- 0.35	24.6†	-14.2†	23†	-13†
	North Foreland	68	52	63.7	55.6	59.4	- 1.5	122	0	1	0.60	?	*	*	*	*
	Cranley	76	48	71.1	52.9	61.4	- 0.8	136	0	4	0.09	?	*	*	*	*
6. SCOTLAND, W.	Dungeness	68	50	64.7	53.7	58.8	- 2.9	118	0	1	0.17	- 0.33	*	*	*	*
	Hastings (St. Leonards)	71	48	66.4	54.2	59.9	- 1.3	125	0	1	0.16	- 0.48	31.1	-18.4	29	-16
	Southampton	79	43	72.7	54.0	62.7	+ 0.5	145	0	2	0.35	- 0.35	39.8	- 6.2	37	- 6
	Hurst Castle	74	44	69.7	55.4	62.1	0.0	141	0	2	0.56	- 0.04	*	*	*	*
	Shaftesbury	78	43	69.8	53.5	61.1	+ 2.4	134	0	2	0.52	- 0.20	*	*	*	*
	Laudale (Loch Sunart)	67	43	63.7	46.4	51.5	- 2.4	88	0	2	0.49	- 0.78	*	*	*	*
7. ENGLAND, N.W.	Glasgow	69	44	66.7	49.6	57.6	+ 0.4	109	0	3	0.28	- 0.61	62.7	+32.9	55	+28
	Ardrossan	67	44	64.6	49.3	56.4	- 1.5	101	0	2	0.10	- 0.68	*	*	*	*
	Glenlee	70	36	67.3	43.3	54.5	- 3.0	88	0	2	0.12	- 0.97	*	*	*	*
	Gilerux (Cumberland)	66	44	63.6	49.3	56.0	- 1.5	98	0	2	0.25	?	59.6	?	53	?
	Douglas (Isle of Man)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	Stonyhurst	67	45	63.5	49.5	56.0	- 2.4	98	0	2	0.22	- 0.90	65.6	+19.6	59	+27
8. ENGLAND, S.W.	Blackpool	68	43	65.8	50.4	57.6	- 2.1	109	0	2	0.12	- 0.70	73.5	+35.0	66	+32
	Manchester (Prestwich)	71	42	66.8	49.7	57.7	- 1.2	110	0	1	0.02	- 0.93	44.3	?	40	?
	Liverpool Obsy. (Bidston)	65	50	62.6	52.9	57.4	- 2.4	108	0	2	0.04	- 0.74	*	*	*	*
	Llandudno	66	48	63.6	53.0	57.9	- 2.7	111	0	1	0.32	- 0.84	63.7	+27.7	58	+25
	Holyhead	65	49	62.0	52.6	57.0	- 2.2	105	0	2	0.06	- 0.56	*	*	*	*
	Llandovery	77	37	71.0	47.7	58.5	- 0.7	116	0	2	0.09	- 0.94	*	*	*	*
9. IRELAND N.	Pembroke	68	54	64.3	56.3	60.0	+ 1.1	126	0	1	0.05	- 0.63	40.3	- 2.7	37	- 2
	Clifton	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
	Arlington (N. Devon)	70	42	66.9	51.4	58.6	0.0	116	0	1	0.05	- 1.20	*	*	*	*
	Cullompton	80	40	71.7	53.9	62.2	+ 1.5	141	0	1	0.01	- 0.69	33.1	- 5.3	31	- 5
	Falmouth	74	53	68.4	57.7	62.7	+ 2.1	145	0	2	0.06	- 0.74	44.4	- 2.1	41	- 3
	Plymouth	77	48	68.6	55.8	61.8	+ 0.5	139	0	1	0.03	- 0.74	43.0	+ 0.2	40	0
10 IRELAND S.	Prawle Point	70	49	67.1	54.7	60.5	+ 1.0	130	0	1	0.04	- 0.61	*	*	*	*
	Malin Head	64	50	60.3	52.1	55.9	- 1.3	97	0	2	0.30	?	*	*	*	*
	Londonderry	74	44	66.0	48.6	56.7	- 1.5	103	0	3	0.21	- 0.73	*	*	*	*
	Edenfel (Omagh)	68	37	63.0	47.9	54.9	- 1.7	90	0	1	0.10	- 0.82	*	*	*	*
	Belmullet	66	45	63.0	52.1	57.2	- 0.7	106	0	3	0.10	- 0.90	*	*	*	*
	Markree Castle	71	36	64.9	48.4	56.1	- 1.0	99	0	2	0.14	- 0.81	43.0	+16.0	39	+15
CHANNEL ISLANDS	Armagh	69	39	65.0	46.3	55.0	- 2.6	91	0	1	0.01	- 0.74	37.6	+ 8.6	34	+ 8
	Donaghadee	67	43	65.0	47.3	55.5	- 2.0	95	0	1	0.03	- 0.71	*	*	*	*
	Edgeworthstown	70	40	65.7	48.7	56.6	- 0.7	102	0	2	0.06	- 0.94	*	*	*	*
	Dublin	71	46	65.8	53.4	59.2	- 0.5	120	0	1	0.03	- 0.68	43.7	+ 8.7	40	+ 8
	Parsonstown	71	46	65.3	52.7	58.6	+ 0.2	116	0	1	0.12	- 0.71	33.5	+ 2.8	31	+ 3
	Kilkenny	72	40	65.4	52.4	58.5	- 0.1	116	0	2	0.17	- 0.48	*	*	*	*
CHANNEL ISLANDS	Roche's Point	68	50	64.9	54.6	59.4	- 0.3	122	0	3	0.39	- 0.45	*	*	*	*
	Valencia	65	43	64.3	54.3	59.0	+ 0.3	119	0	2	0.24	- 0.74	47.9	+14.6	44	+14
	Killarney	69	42	65.8	53.1	59.0	+ 0.6	119	0	3	0.26	?	*	*	*	*
	Foynes	68	46	65.6	53.3	59.0	+ 1.3	119	0	2	0.23	?	*	*	*	*
	Scilly (St. Mary's)	71	54	67.6	58.4	62.7	+ 2.0	145	0	2	0.06	- 0.59	38.7	?	36	?
	Jersey	73	54	69.1	58.3	63.3	+ 0.6	149	0	1	0.03	- 0.62	58.3	+ 6.4	55	+ 6

Stations marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

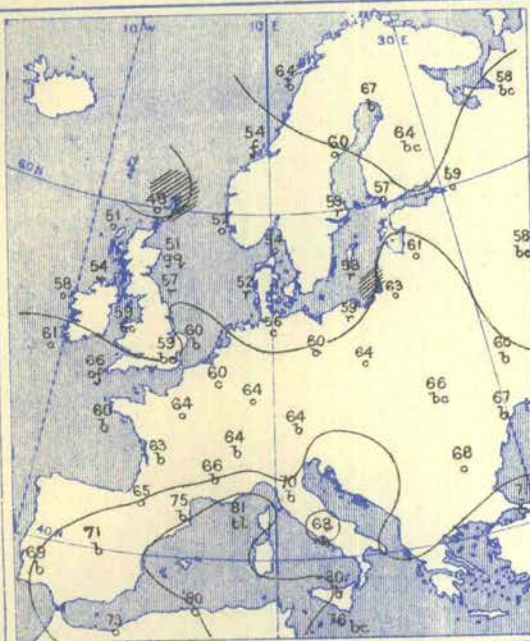
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Report of Sunshine see last page.

Sunday, 24th July.

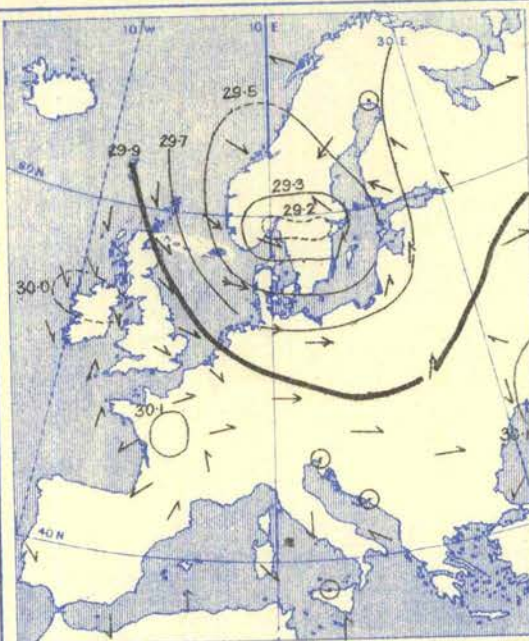
Temperature and Weather.

8 a.m.

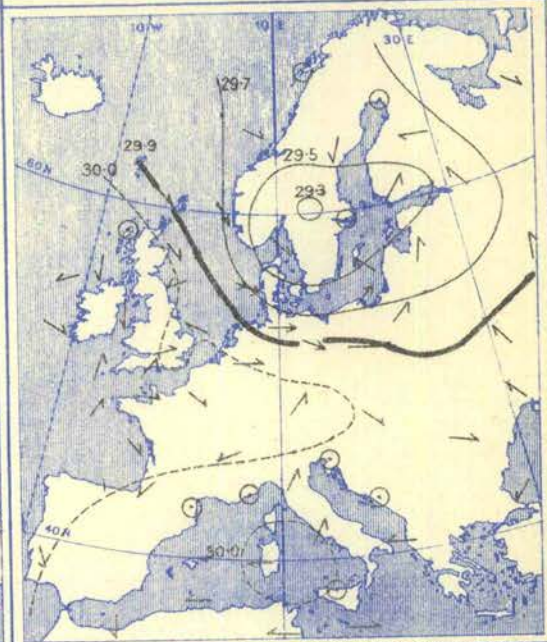


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands but dull in places, especially in the extreme west and north. Fine over southern and eastern Europe generally, but thunder-storm reported at Toulon; dull in most of the northern and central countries, with rain in the south of Scandinavia, as well as at Fano and Neufahrwasser. Rain falling later in many parts of Scandinavia, Germany and northern Russia, as well as in the Shetlands and at Roches Point, but weather remaining dry over the United Kingdom generally.

Temperature fallen in most of the western and northern countries. Morning readings highest, 84° at Stax and Aumale, 82° at Sanguinaires, and 81° at Toulon and Barcelona; above 70° over southern Europe generally, and above 65° in Lapland. Lowest, 48° at Sumburgh Head, 51° at Stornoway, Wick and Aberdeen, and 52° at Nairn, Skudesnaes and Fano. Rising during day to between 70° and 75° at many of the inland stations over England; exceeding 80° over southern Europe generally, and reaching 91° at Toulon and Sanguinaire and 93° at Cape Verde.

Wind light to fresh from the Northward or North-Westward over all the more northern and eastern parts of our Islands, and also over the Netherlands, but variable on our south-west coast. Strong to a gale from the North-Westward on the eastern shores of the North Sea; moderate to fresh from the Westward in Germany and Austria, from the Southward over the Baltic Provinces, from the South-Eastward in Finland, and from the Eastward or North-Eastward over the northern parts of Scandinavia. Light and variable over the whole of southern and south-eastern Europe, subsequently becoming very variable over England; gale on eastern shores of North Sea increasing in force.

Barometer highest, 30.1 ins. and upwards over central France and also in the south of Russia; 30.0 ins. and upwards in many parts of western, southern and eastern Europe. Lowest, 29.2 ins. and less in a well-marked depression over the south of Sweden; gradients rather steep over the North Sea, Denmark and the south of Scandinavia. Depression moving slowly eastward, later and partially filling up; barometer rising over north-western and northern Europe generally.

Monday, 25th July.

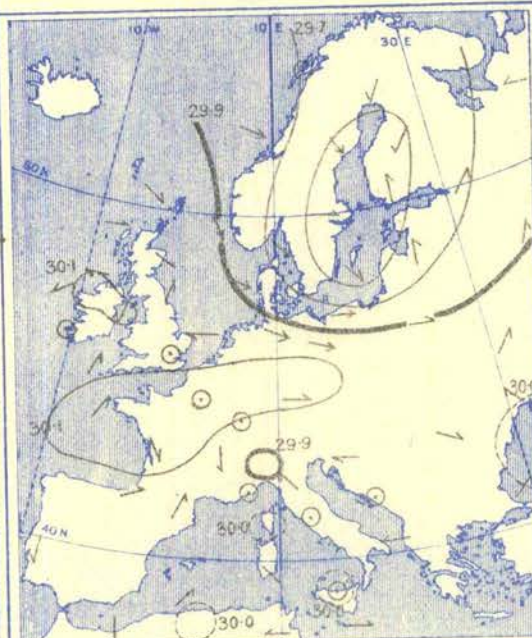
Temperature and Weather.

8 a.m.

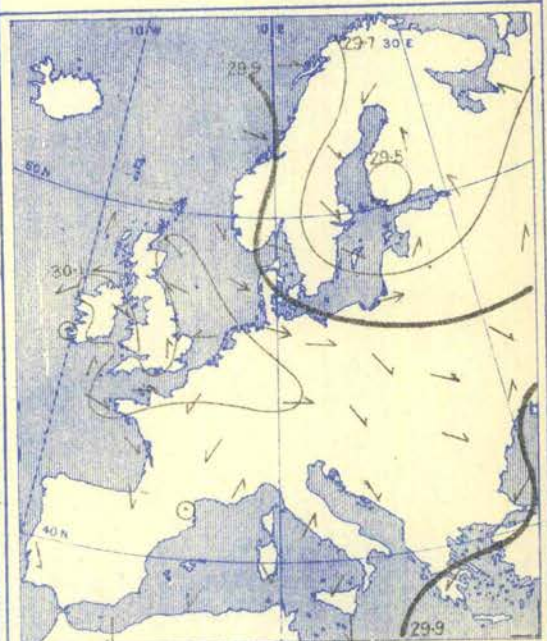


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in places, but cloudy or dull over the United Kingdom generally. Fine over the greater part of France and central and southern Europe, but dull in the northern countries, with rain at Christiansund, Stockholm, and Memel. A little rain falling later in the south of Ireland, and also in Denmark and Sweden and northern Russia, but weather remaining very dry over western Europe as a whole.

Temperature scarcely changed in our Islands, risen in the western parts of the Continent, fallen elsewhere. Morning readings highest, 85° at Barcelona, 84° at Aumale, and 82° at Brindisi; above 75° at several of the Mediterranean and Adriatic stations, and above 65° in the north of Scandinavia. Lowest, 50° at Sumburgh Head, 51° at Christiansund and Skudesnaes, 52° at Hango, and 53° at Nairn and Fano. Rising during day to 70° and upwards in many parts of central and southern England; exceeding 90° in many parts of southern Europe, and reaching 95° at Marseilles, Croisette, and San Fernando.

Wind light from the Westward or South-Westward in the English Channel, and from the Eastward on most parts of our east and west coasts. Light from the North-Westward in the north of Scotland, and moderate to strong from the same quarter over Scandinavia and Denmark; westerly in Germany and Austria; South-Westerly over the Baltic Provinces, with a gale at Memel; Easterly or North-Easterly in the extreme northern parts of Sweden and Russia. Light and variable over France, Italy, and the Spanish Peninsula. Barometer highest, 30.0 ins. to 30.1 ins. or a little more in an anticyclone covering the greater part of western, central, and southern Europe. Lowest, 29.5 ins. and less in a large and well marked depression lying over Finland, Sweden, and the northern parts of the Baltic. Depression moving slowly north-eastwards later, and barometer rising rather decidedly over Scandinavia and Denmark; scarcely any change occurring elsewhere.

III.—SUMMARY OF WEATHER OVER EUROPE.

Tuesday, 26th July.

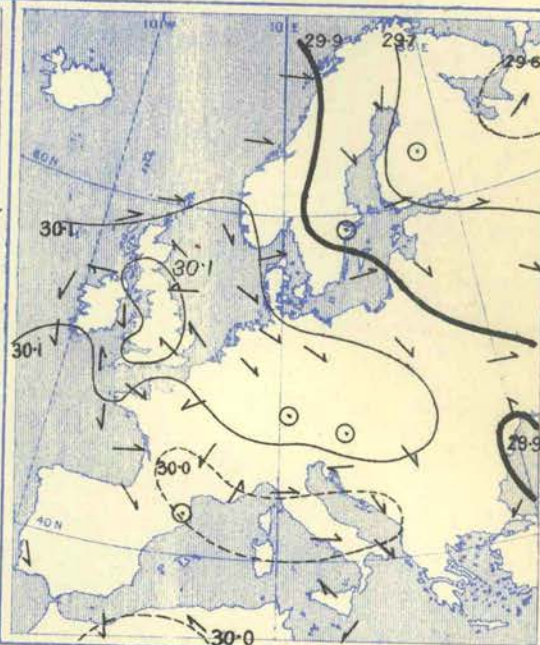
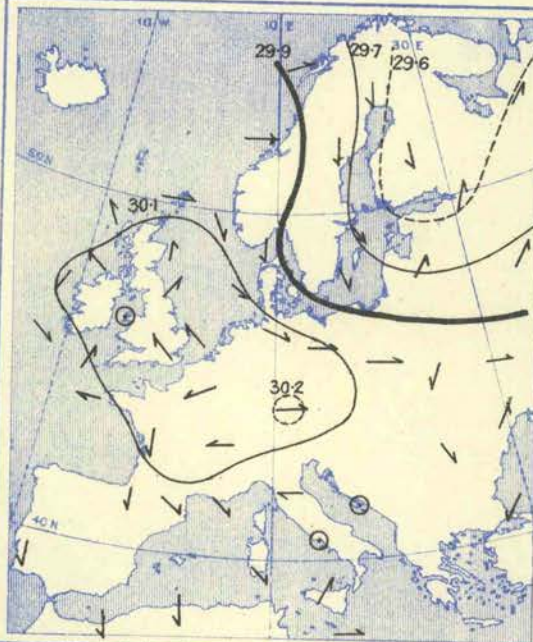
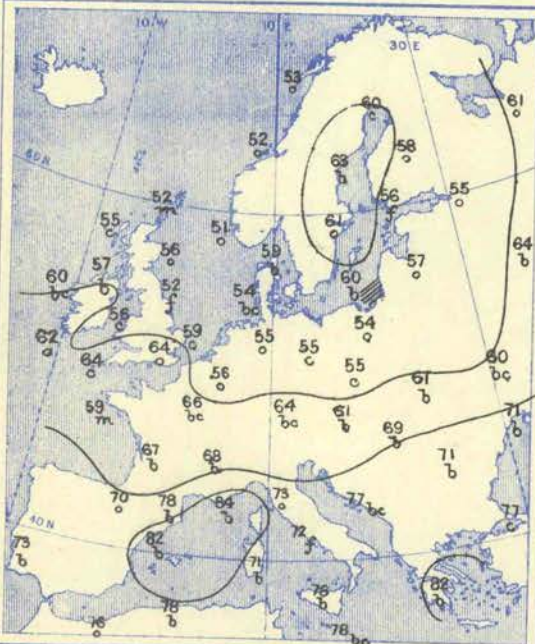
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright at some of our northern stations, but dull over the United Kingdom generally, with fog at Shields and Dungeness. Fine over the greater part of the Continent, but cloudy in the west of Norway, as well as over Finland and the Baltic. Showers falling later at several of our own western and extreme northern stations, and also in Russia. Thunderstorm occurring at Lyons, and thunder only at Perpignan; lightning seen at night at Prawle Point and Jersey.

Temperature risen a little in the north of our Islands, and also over Denmark, the Baltic, and the southern parts of Scandinavia; changed irregularly elsewhere. Morning readings highest, 84° at Toulon and Sanguinaire, 82° at Barcelona and Athens, and 79° at San Fernando; above 70° over southern Europe generally. Lowest, 51° at Skudesnaes, 52° at Christiansund, Sumburgh Head, and Shields, and 53° at Bodø. Rising during day to between 70° and 75° at many of the English stations, and to 78° at Loughborough; exceeding 80° in the west of France, and exceeding 90° in many parts of southern Europe.

Wind light from the Southward or South-Westward in the English Channel, and from the South-Eastward on our eastern and northern coasts, but very variable in the west. Moderate to strong from between north and west over Scandinavia, Denmark, and north Germany, and light from the same quarters in Austria. Light from the Northward or breezes setting in later on our own western coasts, and North-Westerly breezes in the west of France; no important change occurring elsewhere.

Barometer highest, 30.23 ins. at Munich; 30.1 ins. and upwards in an anticyclone embracing a considerable part of western and central Europe. Lowest, 29.6 ins. and less in a depression over Finland. Slight fall taking place later over our Islands and France, and shallow depression forming over Great Britain. Depression over Finland moving eastwards.

Wednesday, 27th July.

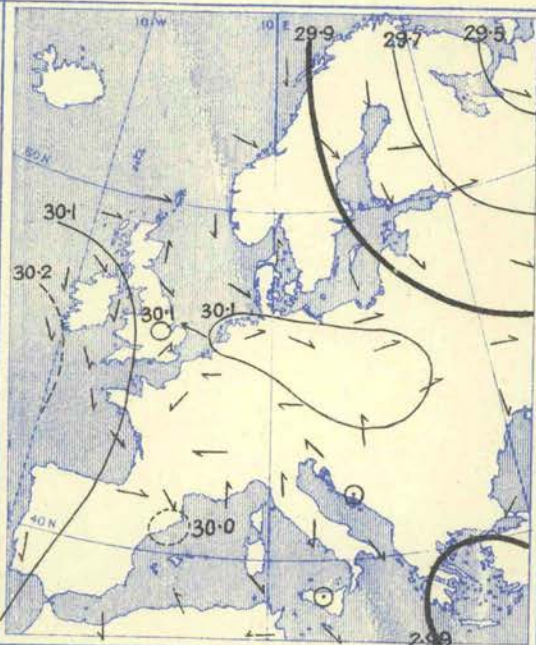
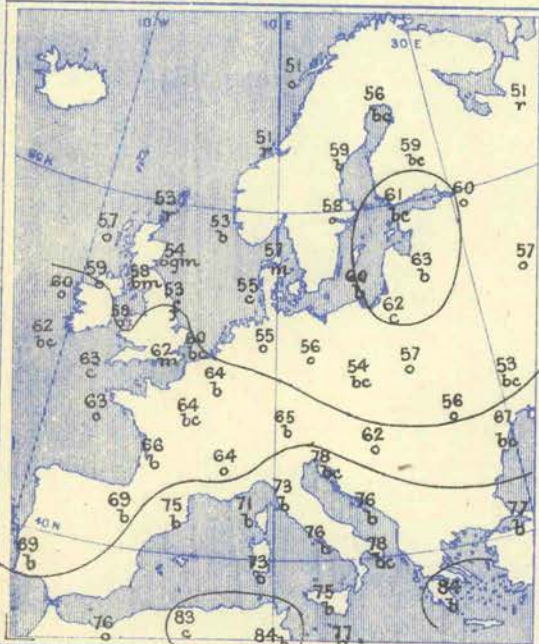
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning dull and misty in the eastern and central parts of Great Britain, fine in most other parts of our Islands and the Continent, but rainy at Sumburgh Head and Christiansund, as well as at Archangel. Rain falling later in the west and north of our Islands and also in the west of Norway. Thunderstorms or thunder only occurring in the south of England, with heavy rain at Hurst Castle and in portions of the London district. Thunderstorm reported also at Nice and lightning at Lyons.

Temperature changed little and irregularly. Morning readings highest, 84° at Athens, Aumale and Sfax, 83° at Sanguinaire, and 80° at Barcelona; above 75° in many parts of southern Europe. Lowest, 51° at Archangel, Bodø and Christiansund, 53° at Skudesnaes, Sumburgh Head, Shields, and Prague, and 54° at Aberdeen and Copenhagen. Rising during day to between 70° and 75° at many of the English Stations and to 79° in London; exceeding 85° in several parts of southern Europe and reaching 99° at Madrid.

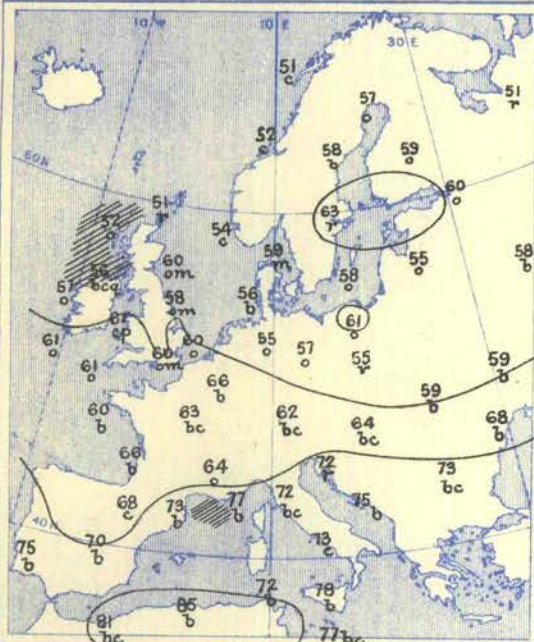
Wind light from the Northward or North-Westward on the west coasts of our Islands and France, but variable or South-Eastward on our east coasts. Light from the Westward in the north of Scotland; Northerly or North-Westerly over Scandinavia, Denmark, and northern Russia. Variable over Austria, Italy and the south of France; Easterly over central France and the Netherlands. Subsequently backing to the Westward or South-Westward on our west coasts; no important change occurring elsewhere.

Barometer highest, 30.1 ins. and upwards in an anticyclone extending from the Atlantic over all the more western parts of our Islands and the Spanish Peninsula, as well as in another system over Holland and Germany. Lowest, 29.5 ins. and less in a depression passing eastwards across the extreme north of Russia; 29.9 ins. and less in a shallow area over Greece and Asia Minor. New depression approaching Scotland later from the North-Westward, and barometer falling in most parts of the United Kingdom.

Thursday, 28th July.

Temperature and Weather.

8 a.m.

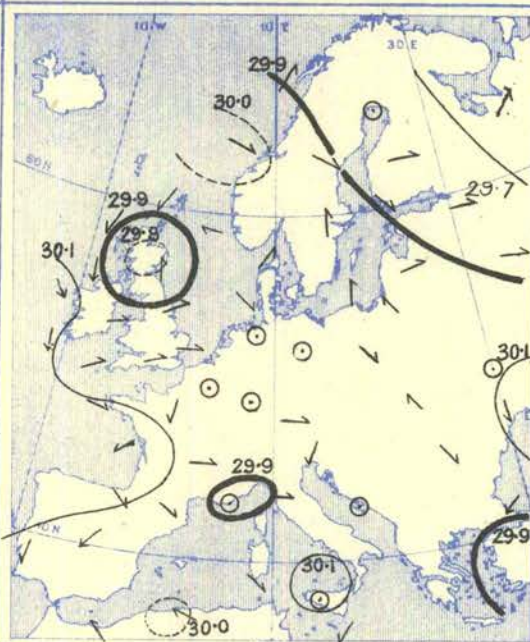


Weather in morning cloudy or dull over our Islands generally, with rain at some of the Scotch stations, and passing showers on several parts of our western and south-western coasts. Fine over the greater part of the Continent, but dull over northern Russia, the south of Sweden, and north Germany, with rain in several places. Rain later over Great Britain generally and the neighbouring parts of the Continent, as well as in Austria. Thunderstorms occurring at many of the English stations, and also at Nice.

Temperature fallen in our Islands, risen in Austria and the south of Russia, changed irregularly elsewhere. Morning readings highest, 86° at Sfax, 85° at Algiers, 83° at Sanguinaire, and 82° at Aumale; above 70° over southern Europe generally. Lowest, 51° at Archangel, Bodø, and Sumburgh Head; 52° at Christiansund and Wick, and 54° at Stornoway, Skudesnaes, and Copenhagen. Rising during day to between 65° and 70° in most parts of England, and reaching 72° at Leith; exceeding 75° over Belgium and the central and southern parts of France, and touching 84° at Perpignan. Reaching 90° at Lisbon, 91° at Cagliari.

Barometer and Wind.

8 a.m.



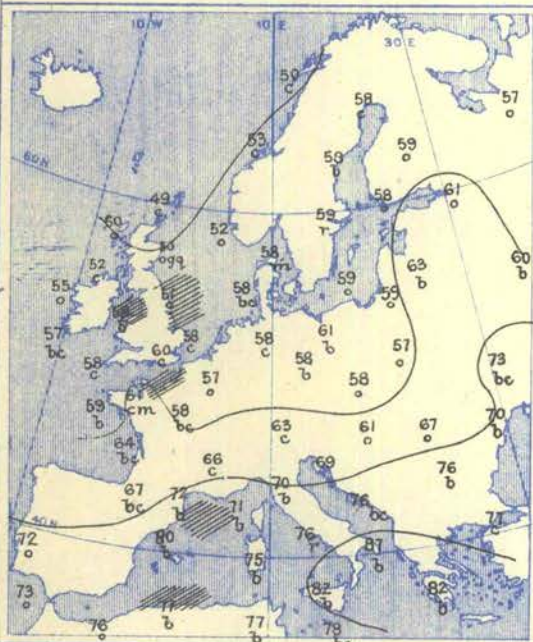
Wind light from the South-Westward over England and the east of Scotland, but North-Easterly in the north of Scotland; moderate to strong from the Northward or North-Westward in Ireland. Light from the North-Westward in the west and south of France; variable over Italy and the Spanish Peninsula; North-Westerly over Austria, Russia, and the north of Scandinavia; variable in the south of Scandinavia. Subsequently veering to the Westward or North-Westward over England, and shifting to the Northward in the east of Scotland.

Barometer highest, 30.1 ins. and upwards in an anticyclone extending from the Atlantic over the Bay of Biscay, the west of France, and the extreme west of Ireland, and also in another system over the south of Russia. Lowest, 29.7 ins. and less in a shallow area over northern Russia, and also in a well-marked depression over Scotland; 29.9 ins. and less in a small system over the Gulf of Genoa. Scotch depression moving south-eastwards later, and barometer rising briskly on our northern coasts.

Friday, 29th July.

Temperature and Weather.

8 a.m.

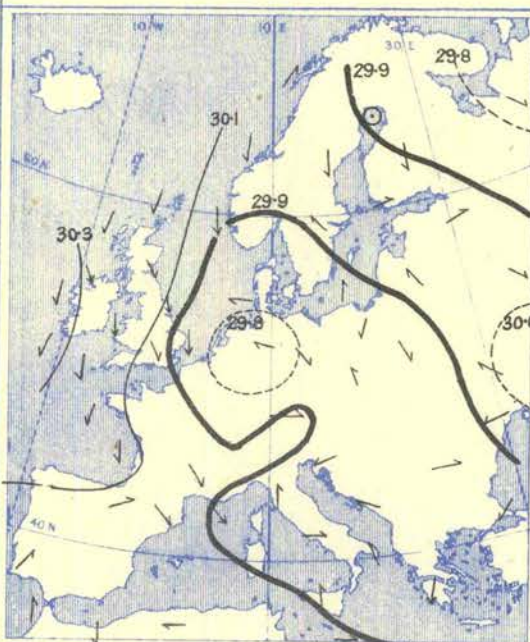


Weather in morning dull over the eastern and central parts of Great Britain, and also over the Netherlands, the east of France, and south of Scandinavia, with rain at Cape Gris Nez, the Helder, Belfort, and Stockholm. Fine in nearly all other parts of Europe, but dull in Austria, and also over northern Russia. Slight showers during day in many parts of Great Britain; heavy rain in Germany, central Russia, and the west of Norway. Lightning seen at Lyons in evening.

Temperature fallen over western Europe generally, but risen in most other regions. Morning readings highest, 87° at Brindisi, 84° at Sfax, and 83° at Patras; above 75° at many of the Mediterranean and Adriatic stations, at Hermannstadt, and at Constantinople. Lowest, 49° at Sumburgh Head, and 50° at Bodø, Stornoway, Wick, Nairn, and Aberdeen. Daily maxima below 60° at most of our own northern and eastern stations, and below 65° on all but our south-west coasts; 80° in the south of France, and reaching 88° at Lisbon, 95° at Brindisi, 102° at Aumale, 106° at Laghouat.

Barometer and Wind.

8 a.m.



Wind Northerly or North-Westerly over western Europe generally, and strong in force on several of the more exposed parts of our west coasts. Westerly over south Germany, but light from the Eastward over Denmark, north Germany, and the Baltic. Westerly or North-Westerly over northern Russia; variable over the north of Scandinavia, as well as in Italy. Southerly to Westerly over the Spanish Peninsula. Subsequently backing to the Westward on some parts of our northern coasts, and becoming northerly over many parts of Russia.

Barometer highest, 30.3 ins. and upwards in an anticyclone lying off the west of Ireland; 30.0 ins. and upwards in another system over the south of Russia. Lowest, 29.8 ins. and less in a well-marked depression over the Netherlands and north-western Germany, and also in shallow areas lying respectively over northern Russia, Austria, and the Gulf of Genoa. Anticyclone in west subsequently spreading eastwards, and German depression moving away in a similar direction.

Saturday, 30th July.

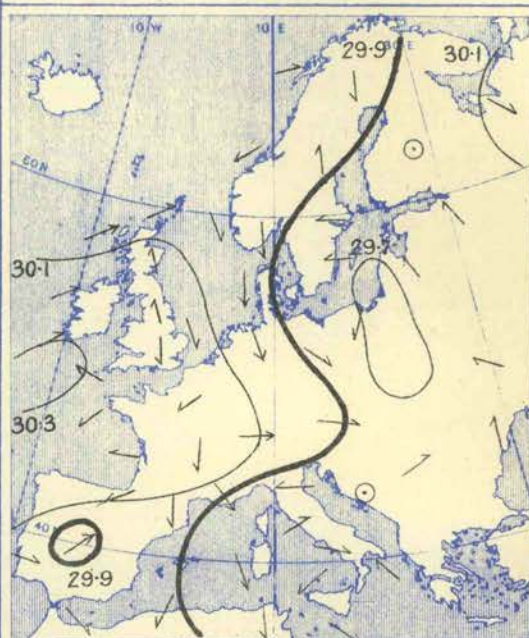
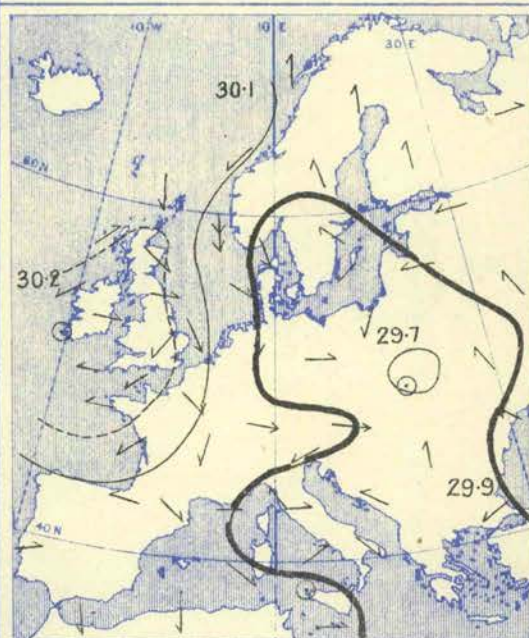
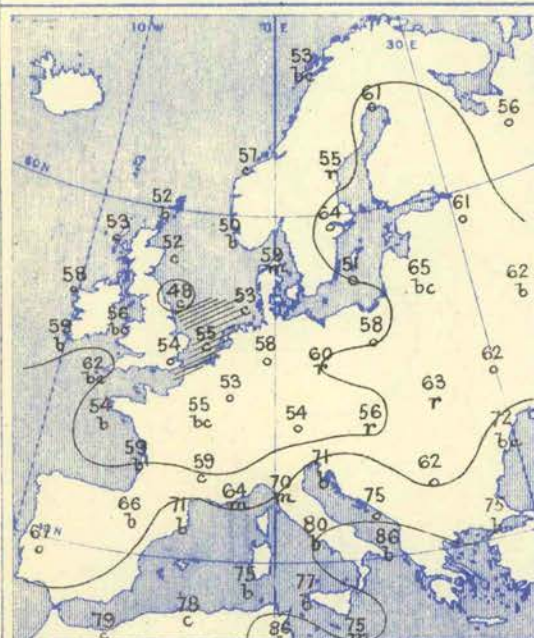
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine over France and the United Kingdom, though dull at many of our northern stations; very unsettled over Germany, the Baltic, and Sweden, with rain in several places. Much rain later in the latter regions, some showers in the north and north-west of our Islands, but dry over England, France, and the Mediterranean.

Temperature low for time of year over north-western and central Europe. Morning readings, highest 86° at Brindisi, 80° at Rome, and above 70° at most stations on the shores of the Mediterranean, the Adriatic, and the coasts of south-eastern Europe. Above 60° over some parts of Germany, Russia, and in Finland, as well as at a few of our own south-western stations. Lowest, 50° to 53° in the west of Norway, 52° at Sumburgh Head, at York and at Belfort, 53° at Wick and at Brussels, 54° in London, 55° at Paris. Rising later to 70° at Leith, 71° at Parsonstown, 86° at Lorient and Perpignan, but not exceeding 64° in London or Paris; nor touching 60° in many parts of Germany.

Wind (1) anticyclonic in direction and light to moderate in force over our Islands; (2) cyclonic in direction, but only moderate, as a whole, in force, over the Continent. South-Easterly over Russia, North-Easterly to Northerly over Scandinavia, North-Westerly over Denmark, Westerly over south Germany. Freshening from South-West and West on our north-west coast later, but falling light from the Northward at our eastern stations, and "backing" a little.

Barometer highest, 30.3 ins. over the southern parts of Ireland, and exceeding 30.1 ins. over our Islands, almost the whole of France, the western half of the North Sea, and at Christian-sund. Lowest, 29.7 ins. at Lemberg, and below 29.8 ins. over almost the whole of Hungary, north Germany, and the southern parts of the Baltic, and in another complex depression over Corsica, the central parts of Italy, and Dalmatia. Falling decidedly in the north-west of our Islands later, rising in the south-east and over Holland.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn with the wind, the force is indicated thus: $\Rightarrow$ = a heavy gale; $\Rightarrow$ = a gale; $\Rightarrow$ = a fresh to strong breeze; $\Rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: $\text{—}b$ = blue sky; $\text{—}c$ = detached clouds; $\text{—}o$ = overcast; $\text{—}m$ = misty (hazy); $\text{—}f$ = foggy; $\text{—}q$ = squally; $\text{—}r$ = rain; $\text{—}h$ = hail; $\text{—}s$ = snow; $\text{—}l$ = lightning; and $\text{—}t$ = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the earlier half of the week the western countries were under the influence of an anticyclone of irregular form, the central portion of which lay at times over our Islands, and at other times over France. The winds were therefore light and rather variable, and the weather mostly fair and dry, but with a good deal of cloud over the United Kingdom, and a very close atmosphere. In the northern and central countries the conditions were affected by a well-marked depression which had advanced over Scandinavia from the North-Westward at the close of the preceding week, and which afterwards moved Eastwards across northern Russia. This disturbance occasioned cloudy and unsettled weather, with rain in many places, and with gales from between South-West and North-West over the Baltic, Denmark, and the south of Norway.

On the 27th the anticyclone began to recede from the neighbourhood of our Islands, and at night the centre of a well-marked depression appeared over Scotland, the disturbance afterwards moving South-Eastwards across the North Sea, and then to the Eastward across Germany and Russia. Rain now fell in all parts of western, northern, and central Europe, with thunderstorms over England on the 27th and 28th, and with very strong Northerly winds over the North Sea and the neighbouring coasts on the 29th. As the depression moved away an anticyclone spread over western Europe from the Atlantic. At the close of the week the northern parts of our Islands were beginning to be affected by shallow depressions, which appeared off the north of Scotland, and which occasioned showers, both in that country, and also in the north of Ireland.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 176.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	12.1	?	10	?	WESTBOURNE (Emsworth)	34.1*	-13.1	32*	-12
STRATHPEFFER SPA	20.7	-0.8	23	0	WATERGATE (Emsworth)	21.1	?	20	?
EDINBURGH	44.3	+13.0	39	+11	BRIGHTON	27.1	-21.4	25	-20
MORPETH	34.3	?	31	?	EASTBOURNE	35.1	-13.0	33	-12
NEWCASTLE-ON-TYNE	33.8	?	30	?	TENBY	44.9	?	42	?
OSWALDKIRK (Yorkshire)	36.0	+1.9	32	+2	VENTNOR HOSPITAL	62.5	?	56	?
HOLLESLEY BAY	33.1	?	31	?	SOUTHPORT	61.9	?	57	?
SHEFFIELD	35.3	?	33	?	COLWYN BAY	61.9	?	57	?
WORKSOP	30.9	-4.6	23	-4	TENBY	42.5*	-0.4	39*	-1
THURCASTON (Leicestershire)	35.7	-1.1	33	0	NEWQUAY	38.3	-7.5	36	-7
PLUMSTEAD COMMON	22.0	?	20	?	TORQUAY	33.9*	-11.9	32*	-10
MARGATE	22.9	-20.3	21	-10	GUERNSEY	62.6*	+9.4	59*	+9

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 31.]
Third Series.

WEEK ENDING SATURDAY, AUGUST 6TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 182.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	70	45	60.0	50.0	54.7	0 (average)	Day-deg. 89	Day-deg. + 3	Day-deg. 0	Day-deg. 0	Day-deg. 1201	Day-deg. +127	Day-deg. 395	Day-deg. -228
	1. SCOTLAND, EAST	74	40	64.5	49.9	56.7	0 (average)	103	0	0	0	1418	+ 86	427	-222
	2. ENGLAND, N.E.	75	45	68.6	52.3	59.9	1 above	125	+10	0	0	1505	+115	333	-216
	3. ENGLAND, EAST	80	40	73.0	50.4	61.0	0 (average)	133	+ 6	0	0	1685*	+ 36	410	-207
	4. MIDLAND COUNTIES	79	40	71.2	51.5	60.7	1 above	131	+10	0	0	1705	+ 36	404	-215
	5. ENGLAND, SOUTH	79	42	70.4	52.9	61.1	0 (average)	134	+ 1	0	0	1870	+ 85	234	-243
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	68	42	62.6	51.9	56.9	0 (average)	104	- 2	0	0	1527	+121	245	-217
	7. ENGLAND, N.W.	73	44	66.0	53.9	59.6	0 (average)	123	+ 7	0	0	1628	+122	215	-244
	8. ENGLAND, S.W.	77	34	67.2	53.1	59.7	0 (average)	124	+ 3	0	0	1826	+131	205	-156
	9. IRELAND, NORTH	71	45	64.2	52.5	58.0	1 above	112	+ 6	0	0	1623	+119	227	-168
	10. IRELAND, SOUTH	75	44	66.4	54.7	60.3	2 above	128	+13	0	0	1925	+209	165	-134
	-CHANNEL ISLANDS	74	49	69.3	55.9	62.2	1 above	141	+ 8	0	0	2153	+258	55	- 93

DISTRICTS. (See p. 182.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	17	8 more	154	+15	32.8	+ 6.7	26	+ 1	23	0	817	+53	28	+ 2
	1. SCOTLAND, EAST	5	6	2 less	116	+ 3	14.0	- 3.1	29	- 3	26	- 3	907	+36	32	+ 2
	2. ENGLAND, N.E.	5	12	5 more	106	0	12.0	- 2.2	36	- 1	33	0	855	+11	31	+ 1
	3. ENGLAND, EAST	3	5	2 less	97	- 6	11.6	- 2.5	53	+ 9	50	+ 9	952	-74	33	- 3
	4. MIDLAND COUNTIES	4	15	8 more	96	- 5	11.3	- 4.1	41	+ 5	38	+ 4	927	+26	33	+ 1
	5. ENGLAND, SOUTH	2	2	4 less	90	- 7	10.5	- 4.7	56	+12	54	+12	948	-70	35	- 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	18	8 more	132	+13	22.1*	- 3.8	20	-12	13	-11	959	+ 82	35	+ 3
	7. ENGLAND, N.W.	5	20	12 more	112	+ 3	19.0	+ 1.2	24	-12	23	-12	1014	+115	37	+ 4
	8. ENGLAND, S.W.	3	12	3 more	102	- 8	16.6	- 3.8	39	- 4	37	- 4	1140	+ 36	41	+ 2
	9. IRELAND, NORTH	6	12	3 more	141	+13	19.5*	- 0.6	15	-13	14	-12	878	+ 18	31	+ 1
	10. IRELAND, SOUTH	5	13	4 more	108	- 9	18.8	- 2.6	20	-12	10	-13	980	+ 13	35	+ 1
	- CHANNEL ISLANDS	3	7	0 (average)	117	+ 1	13.2	- 3.7	65	+22	62	+22	1273	+ 38	46	+ 1

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather was unsettled and rainy in the extreme north and north-west from the commencement of the period, and these conditions gradually extended southwards and eastwards, so that towards the end of the week they embraced the entire Kingdom. Thunder and lightning were occasionally experienced, chiefly in the eastern and south-eastern parts of Great Britain.

Temperature differed very little from the mean value over Great Britain, but was slightly above it in Ireland. The highest of the maxima were recorded during the earlier days of the week, and ranged from 80° in England E., and 79° in the Midland counties and England S., to 71° in Ireland N., and 68° in Scotland W. The lowest of the minima, which were registered on July 31st over England and Ireland, and towards the end of the period in Scotland, ranged from 34° in England S.W., and from 40° in Scotland E., England E., and the Midland counties, to 45° in Scotland N., Ireland N., and England N.E., and to 49° in the Channel Islands.

Rainfall was less than the mean in Scotland E. and England E. and S., and just equal to it in the Channel Islands; elsewhere, however, there was an excess, that over Scotland and the greater part of England being very large. The fall exceeded an inch at several of the inland English stations on Wednesday, and at others on Saturday. On the latter day at Stamford about 1.25 ins. is reported to have fallen between 4.0 and 7.0 p.m.

Bright Sunshine was less than the normal over all the western and most of the northern parts of the Kingdom, but exceeded it over southern, central, and eastern England, and in the Channel Islands. The percentage of the possible duration ranged from 62 in the Channel Islands, 54 in England S., and 50 in England E., to 38 in the Midland counties, 19 in Ireland S., 18 in Scotland W., and 14 in Ireland N.

Barometer and Wind.—At the commencement of the week the distribution of pressure was anticyclonic over all the more southern parts of the Kingdom, but depressions were observed to the northward of Scotland. As the week progressed the anticyclone moved southwards and south-eastwards, and depressions extended more and more over us. During Friday a small, but rather deep, depression passed directly across the northern parts of the Kingdom, and this disturbance and its secondary caused the wind, which had previously been moderate or fresh from the South-Westward and Westward, to increase considerably, and attain the force of a gale at many of our western and southern stations.

* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 181 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	59	46	56.3	48.1	52.0	- 1.4	70	0	6	0.60	0.00	*	*	*	*
	Stornoway	61	45	59.4	49.3	54.1	- 0.6	85	0	7	1.14	+ 0.36	38.7	+10.7	35	+10
	Wick	70	45	63.0	49.4	55.8	+ 0.7	97	0	7	0.67	+ 0.05	*	*	*	*
	Laing	67	47	61.5	49.9	55.4	+ 1.1	94	0	6	0.61	- 0.13	*	*	*	*
	Glencarron	61	46	57.0	49.1	53.0	- 1.6	77	0	7	4.49	+ 2.97	*	*	*	*
	Fort Augustus	70	48	61.8	51.6	56.4	- 0.1	101	0	5	1.40	+ 0.61	15.7	- 1.0	14	- 1
	Fort William	65	49	60.7	52.3	56.3	- 0.6	100	0	6	2.79	+ 1.45	16.0	- 6.7	14	- 7
1. SCOTLAND, E.	Nairn	69	46	63.6	49.9	56.3	- 1.1	100	0	5	0.43	- 0.29	*	*	*	*
	Aberdeen	74	48	65.4	51.6	58.1	+ 1.2	113	0	6	0.65	- 0.15	24.4	- 9.7	22	- 8
	Braemar	67	45	60.2	49.3	54.4	+ 0.1	37	0	6	0.80	+ 0.05	27.7†	0.0†	25†	0†
	Ochertyre	71	40	65.6	48.3	56.4	- 1.6	101	0	4	0.75	- 0.15	*	*	*	*
	Leith	70	50	66.9	52.7	59.4	+ 0.5	122	0	3	0.47	- 0.23	*	*	*	*
	Marchmont	69	40	65.3	47.4	55.8	- 0.6	97	0	3	0.58	- 0.30	34.3	0.0	31	0
	Alnwick Castle	70	49	67.8	51.8	59.3	+ 2.2	121	0	4	0.61	- 0.14	*	*	*	*
2. ENGLAND, N.E.	Durham	74	48	69.2	50.6	59.3	+ 0.6	121	0	4	1.02	+ 0.25	33.1	- 1.1	30	- 1
	Shields	72	47	68.3	51.7	59.5	+ 1.6	123	0	4	0.85	+ 0.17	*	*	*	*
	Scarborough	72	49	68.2	51.3	59.2	+ 0.1	120	0	5	1.49	+ 0.78	40.6	?	38	?
	York	74	45	69.0	53.3	60.7	+ 1.3	131	0	5	1.53	+ 0.85	34.4	- 1.4	32	- 1
	Spurn Head	75	50	69.0	55.0	61.6	+ 1.9	137	0	5	1.59	+ 1.13	*	*	*	*
3. ENGLAND, E.	Hillington	80	40	74.7	48.9	61.0	+ 0.4	133	0	4	0.69	- 0.06	48.4	+ 6.9	45	+ 7
	Yarmouth	76	46	70.1	52.4	60.7	0.0	131	0	2	0.20	- 0.45	*	*	*	*
	Geldeston	77	43	73.8	50.2	61.3	+ 0.6	135	0	3	0.21	- 0.39	53.3	+ 8.6	50	+ 8
	Cambridge	77	44	74.4	50.0	61.5	+ 0.1	137	0	4	0.97	+ 0.37	52.0	+ 9.9	49	+11
	Rothamsted	75	44	71.9	50.6	60.6	+ 0.2	130	0	4	0.24	- 0.41	55.4	+10.7	52	+10
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	79	42	71.4	51.6	60.9	+ 0.7	132	0	4	2.26	+ 1.64	*	*	*	*
	Loughborough	78	41	73.1	52.3	62.1	+ 0.7	141	0	4	1.11	+ 0.54	*	*	*	*
	Stanford (Duddington)	78	43	73.7	51.6	62.0	+ 0.6	140	0	4	1.39	+ 0.76	*	*	*	*
	Cheadle	71	46	66.5	50.1	57.8	- 0.3	111	0	4	2.20	+ 1.42	*	*	*	*
	Shirley (near Solihull)	75	42	69.5	51.0	59.7	- 0.6	124	0	4	1.46	?	*	*	*	*
	Churchstoke	75	40	70.9	52.4	61.1	+ 0.9	134	0	4	0.53	- 0.05	*	*	*	*
	Hereford	75	40	71.4	50.0	60.1	+ 1.2	127	0	4	1.62	+ 0.84	42.9	+ 2.0	40	+ 2
5. ENGLAND, S.	Cirencester	75	40	71.4	50.0	60.1	+ 1.2	127	0	4	1.62	+ 0.84	42.9	+ 2.0	40	+ 2
	Oxford	76	47	72.7	52.7	62.1	+ 1.3	141	0	3	1.04	+ 0.42	48.3	+ 6.3	46	+ 6
	London	79	45	75.0	53.0	63.3	+ 1.0	149	0	3	0.06	- 0.54	54.2†	+15.4†	51†	+15†
	North Foreland	76	48	70.9	54.3	61.9	+ 1.0	139	0	1	0.07	?	*	*	*	*
	Cranley	78	42	72.6	50.0	60.6	- 1.6	130	0	2	0.09	?	*	*	*	*
	Dungeness	70	43	67.7	53.7	60.3	- 1.4	128	0	2	0.38	- 0.12	*	*	*	*
	Hastings (St. Leonards)	71	49	67.8	53.2	60.1	- 1.4	127	0	2	0.35	- 0.29	68.9	+20.1	66	+20
6. SCOTLAND, W.	Southampton	79	48	73.0	52.3	62.0	- 0.1	140	0	3	0.30	- 0.40	47.7	+ 1.7	45	+ 2
	Hurst Castle	71	48	68.6	55.7	61.8	- 0.5	139	0	2	0.16	- 0.44	*	*	*	*
	Shaftesbury	75	43	67.9	50.7	58.8	- 0.3	118	0	3	0.33	- 0.37	*	*	*	*
	Laudale (Loch Sunart)	65	48	60.0	52.6	56.1	- 0.7	99	0	7	2.52	+ 1.25	*	*	*	*
	Glasgow	63	50	61.4	53.2	57.1	0.0	106	0	6	0.86	- 0.04	20.0	- 9.8	18	- 9
	Ardrrossan	64	51	62.0	53.4	57.4	- 0.5	108	0	5	0.69	- 0.13	*	*	*	*
	Glenlee	68	46	65.1	49.2	56.7	- 0.6	103	0	5	1.68	+ 0.56	*	*	*	*
7. ENGLAND, N.W.	Gilcrux (Cumberland)	64	50	62.1	52.8	57.2	- 0.3	106	0	5	2.49	?	14.2	?	13	?
	Douglas (Isle of Man)	68	42	64.8	50.1	57.0	- 0.2	105	0	4	2.23	+ 1.38	25.5	-15.2	24	-13
	Stonyhurst	69	46	64.3	52.9	58.3	+ 0.1	114	0	4	2.79	+ 1.62	23.5	-10.7	22	- 9
	Blackpool	70	47	66.4	54.8	60.3	+ 0.6	128	0	5	1.69	+ 0.84	13.4	-23.4	12	-22
	Manchester (Prestwich)	73	44	68.1	51.9	59.5	+ 0.5	123	0	5	2.15	+ 1.21	24.7	?	23	?
	Liverpool Obsy. (Bidston)	71	51	65.4	53.9	59.3	- 0.5	121	0	5	1.42	+ 0.65	*	*	*	*
	Llandudno	71	53	67.6	54.9	60.9	+ 0.2	132	0	4	2.04	+ 1.37	30.9	- 4.1	29	- 4
8. ENGLAND, S.W.	Holyhead	71	51	64.3	54.7	59.2	0.0	120	0	4	1.84	+ 1.19	*	*	*	*
	Llandovery	74	34	68.0	52.0	59.5	+ 0.3	123	0	5	2.25	+ 1.17	*	*	*	*
	Pembroke	66	50	62.7	56.0	59.2	+ 0.3	120	0	1	0.09	- 0.61	36.7	- 5.2	34	- 6
	Clifton	72	50	68.9	55.9	62.0	+ 1.4	140	0	3	2.09	+ 1.19	*	*	*	*
	Arlington (N. Devon)	70	40	66.0	50.0	57.5	- 1.9	109	0	5	1.77	+ 0.49	*	*	*	*
	Cullompton	77	42	71.6	50.6	60.5	+ 0.1	130	0	3	0.62	- 0.08	31.9	- 6.5	30	- 6
	Falmouth	70	51	67.9	54.4	60.8	+ 0.1	132	0	3	1.42	+ 0.60	48.6	+ 3.0	47	+ 4
9. IRELAND N.	Plymouth	73	45	67.1	51.6	58.9	- 2.5	118	0	3	0.70	- 0.08	36.4	- 5.8	35	- 5
	Prawle Point	69	50	65.4	54.0	59.4	- 0.3	122	0	3	0.42	- 0.23	*	*	*	*
	Malin Head	61	51	60.0	54.0	56.8	- 0.7	104	0	5	0.93	?	*	*	*	*
	Londonderry	69	50	64.6	52.5	58.2	+ 0.1	113	0	6	0.95	0.00	*	*	*	*
	Edenfel (Omagh)	65	48	63.0	52.4	57.4	+ 0.9	108	0	5	1.50	+ 0.56	*	*	*	*
	Belmullet	64	51	62.3	55.1	58.5	+ 0.4	116	0	7	1.24	+ 0.16	*	*	*	*
	Markree Castle	69	49	64.6	52.7	58.3	+ 1.1	114	0	6	1.14	+ 0.16	13.2	-12.8	12	-13
10 IRELAND S.	Armagh	68	45	65.6	51.0	57.9	+ 0.4	111	0	5	1.50	+ 0.74	16.0	-11.2	15	-10
	Donaghadee	71	48	67.3	51.7	59.0	+ 1.5	119	0	6	1.20	+ 0.44	*	*	*	*
	Edgeworthstown	70	47	66.4	50.9	58.2	+ 0.8	113	0	5	1.28	+ 0.26	*	*	*	*
	Dublin	75	53	69.2	55.7	62.1	+ 2.6	141	0	5	1.16	+ 0.42	27.6	- 7.2	26	- 6
	Parsonstown	69	48	66.3	53.9	59.7	+ 1.4	124	0	5	1.38	+ 0.50	15.4	-12.9	14	-13
	Kilkenny	74	45	67.4	54.1	60.4	+ 1.8	129	0	5	1.19	+ 0.50	*	*	*	*
	Roche's Point	70	50	65.1	56.3	60.4	+ 0.7	129	0	3	1.13	+ 0.25	*	*	*	*
CHANNEL ISLANDS	Valencia	68	52	64.7	55.4	59.8	+ 1.0	125	0	6	1.44	+ 0.44	17.2	-15.5	16	-15
	Killarney	71	44	66.7	52.4	59.1	+ 0.5	120	0	4	1.45	?	*	*	*	*
	Foynes	70	50	65.7	55.4	60.3	+ 2.2	128	0	5	1.24	?	*	*	*	*
	Scilly (St. Mary's)	70	55	68.1	57.6	62.5	+ 1.8	144	0	3	0.62	- 0.03	43.5	?	42	?
	Jersey	74	49	70.4	54.1	61.8	- 0.9	139	0	3	0.68	+ 0.03	73.9	+21.3	71	+20

Stations marked *st* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

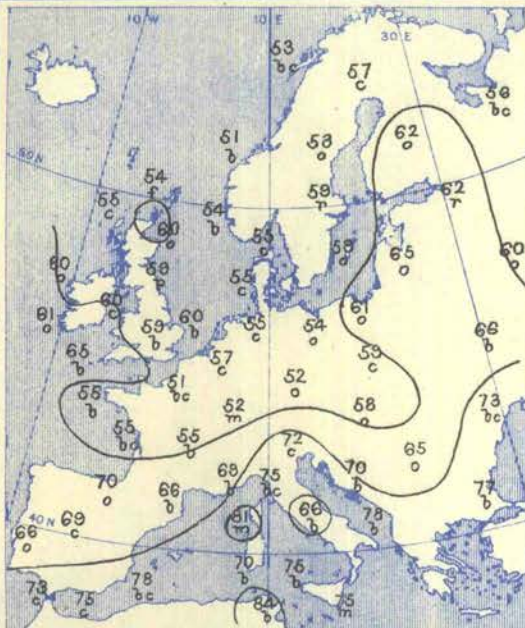
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 31st July.

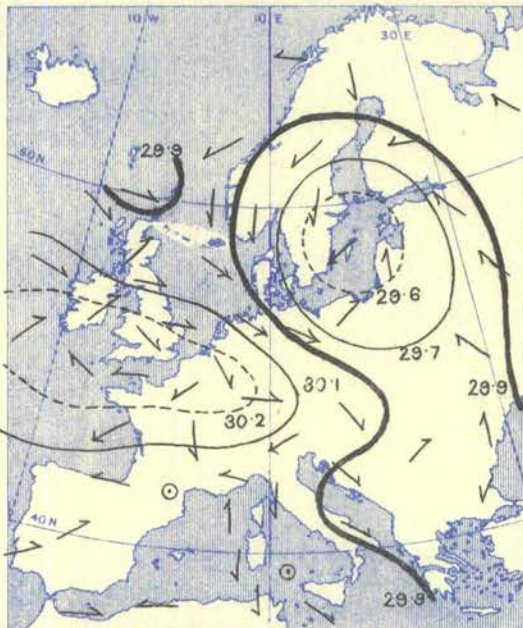
Temperature and Weather.

8 a.m.

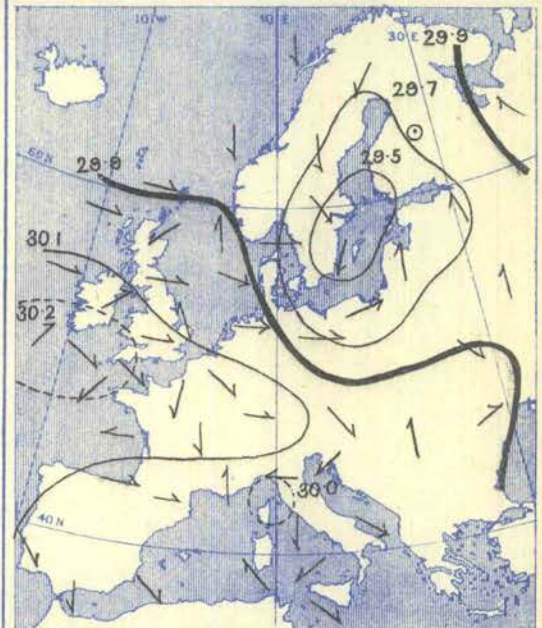


Barometer and Wind.

8 a.m.



8 p.m.



Weather in morning very fine over the central, southern, and western parts of Continental Europe, including the greater part of England and the south-east of Ireland; also in the west of Norway; dull and showery over the north of Ireland and greater part of Scotland, very dull and rainy over the Baltic, the south of Sweden and western Russia. Heavy rain later over the south-east of Sweden and the west of Russia, and considerable local falls at Hermanstadt; small quantities over Scotland and the north of Ireland.

Temperature rising over England, falling over the Baltic and central Europe. Morning readings highest, (1) 81° at Sanguinaires, and above 70° at most stations on the coasts of southern and south-eastern Europe; (2) above 60° on our southern coasts as well as over western Russia and Finland. Lowest, (1) 51° at Christiansund, 53° at Bodö, 54° at Sumburgh Head; (2) 52° at Karlstad and at Prague, and much below 60° over central Europe as a whole. Rising later to between 75° and 79° over the inland parts of England, to 70° at Paris, and 79° at Nice, but not exceeding 66° at Berlin, and touching only 57° at Munich and 61° at Cuxhaven.

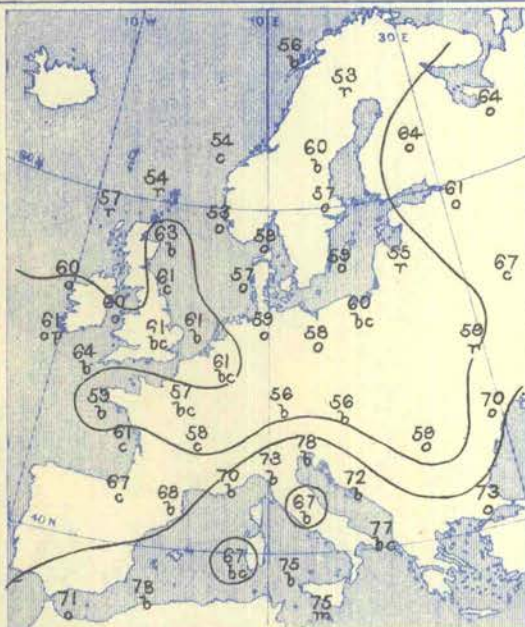
Wind (1) very light in force and anticyclonic in direction over France and the south of our Islands, and moderate and cyclonic from North-West and South-West at the Scotch stations; (2) cyclonic and moderate to very fresh or strong on the shores of the Baltic and over Denmark. Easterly in Finland, Northerly over Sweden, North-Westerly over Denmark and Holstein, Westerly and South-Westerly over north Germany. Becoming strong to a gale over the Baltic later. Little change elsewhere.

Barometer highest, 30.2 ins. and more to 30.0 ins. in an anticyclone covering Ireland, England and France. Lowest below 29.6 ins. in a depression over the Baltic and Gulf of Riga, and below 29.5 ins. over the Shetlands. The Baltic depression becoming deeper later. No other decided change.

Monday, 1st August.

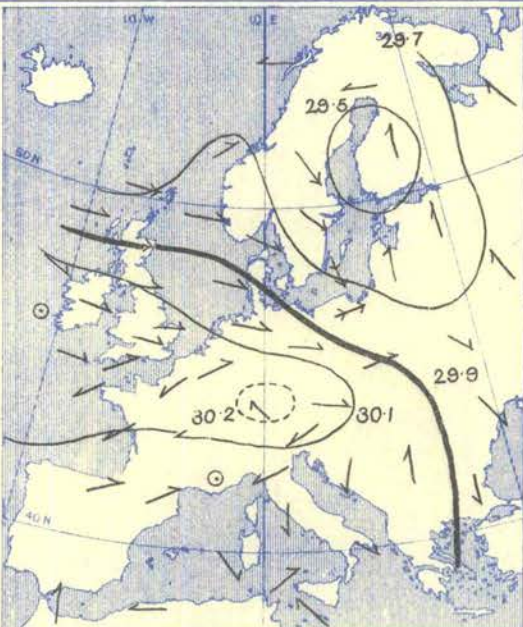
Temperature and Weather.

8 a.m.

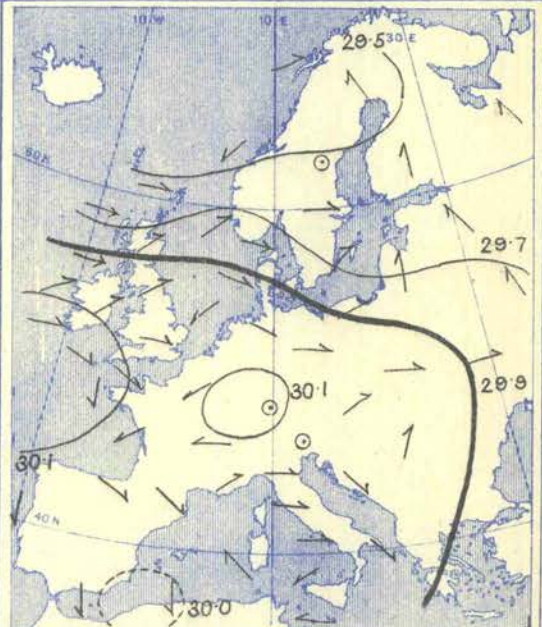


Barometer and Wind.

8 a.m.



8 p.m.



Weather in morning fine over southern, central, and western Europe, including the southern and eastern parts of England; dull and showery over Ireland and Scotland; dull, very rainy, and unsettled over many parts of Russia and Finland. Considerable rain later over the Hebrides, the Shetlands, and large quantities in the east of Lapland, and small quantities over Scotland and the north and west of Ireland; remaining fine over England, France, and Germany.

Temperature rising over our Islands and France. Morning readings highest, 82° at Aumale, 77° at Brindisi, and exceeding 70° at many of the Mediterranean, Adriatic, and Black Sea stations; above 60°, as a whole, over Russia, as well as over the western half of France, and the greater part of the British Isles. Lowest, (1) 53° at Haparanda and Skudesnaes, 54° at Christiansund, 57° at Stornoway, Fanö, and Swinemunde; (2) 53° to 56° over south Germany and the east of France, 55° at Riga. Rising later to between 74° and 78° in many parts of Great Britain, to 70° at Berlin, 76° at Paris, to 79° at Nice, and 88° at Rochefort. Succeeding night cool over England.

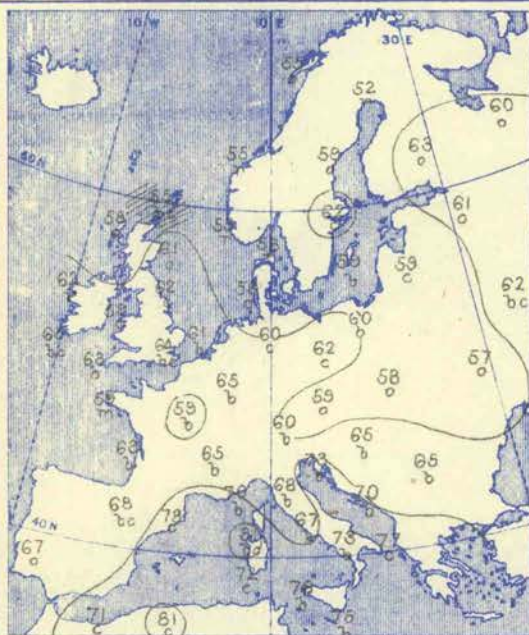
Wind (1) light to moderate in force, and, as a whole, anticyclonic in direction over the Mediterranean, south Germany, France, and the south-western parts of England and Ireland, Westerly over Scotland and the east of England; (2) cyclonic over Sweden, the Baltic, and western Russia, and blowing a gale from West-South-West at Memel and Neufahrwasser, and a severe gale from North-West at Wisby. Becoming still stronger on our north-western coasts later, and freshening over our southern counties also.

Barometer highest, 30.2 ins. and more to 30.0 ins. over Ireland, England, France, and Germany, as well as over Austria and the Mediterranean. Lowest, (1) below 29.7 ins. over the Shetland Islands and north-west of Norway; (2) below 29.5 ins. in a depression over Finland and the Gulf of Bothnia; and below 29.4 ins. in a small, but deep, secondary disturbance over the Gulf of Riga. Falling decidedly over northern half of our Islands, and over Norway all day.

Tuesday, 2nd August.

Temperature and Weather.

8 a.m.

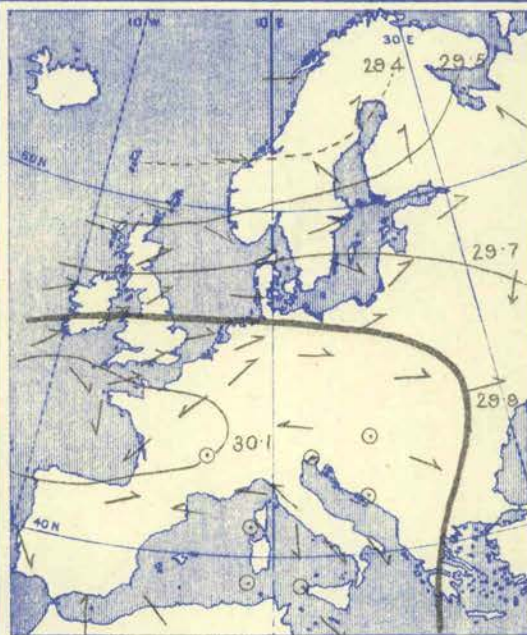


Weather in morning still very fine over the Mediterranean, France, and the south and south-east of England, and improving greatly over central Europe and the Baltic; dull over Norway, Scotland, and the north of Ireland, with some rain later over Scandinavia and the north and west of our Islands (nearly 0.4 ins. in the west), and a considerable fall at Archangel; still fine over the southern and eastern parts of England, and over France, central Europe, and the Mediterranean.

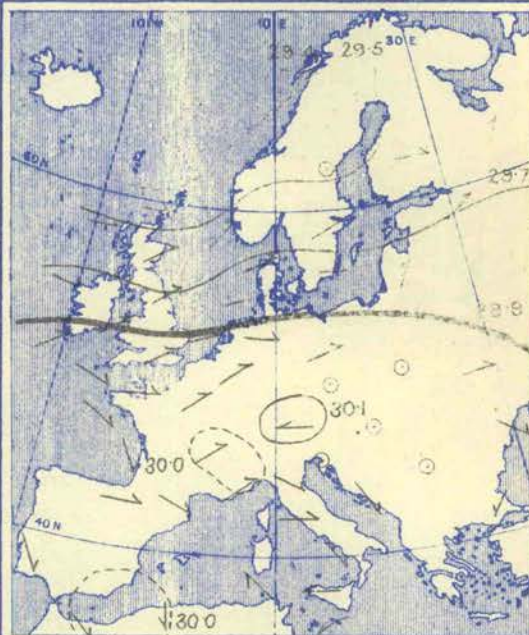
Temperature rising slowly in most places. Morning readings highest, 81° at Algiers and Sanguinaires, 78° at Barcelona, 77° at Brindisi, and above 70° at the Mediterranean stations as a whole; above 60° over our Islands, and over central and northern Russia. Lowest, (1) 52° at Haparanda, 53° at Skudesnaes, 55° at Sumburgh Head, Christiansund, and Bodø, and below 60° at all the more northern of the Scandinavian stations. Rising later to between 70° and 78° over England, and to 70° in the east of Ireland; touching 77° at Berlin, 78° at Paris, 82° at Nice, 84° at Lyons and Perpignan.

Barometer and Wind.

8 a.m.



6 p.m.



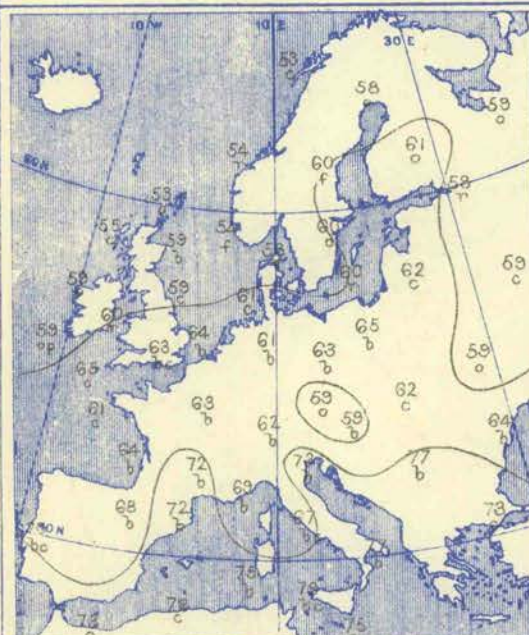
Wind (1) light and anticyclonic over the Mediterranean, France, Germany, and on the southern coasts of our Islands; (2) South-Westerly to Westerly over the more northern parts of our Islands, the North Sea, Denmark, north Germany, and the southern half of Scandinavia; Southerly and variable over Finland, Easterly at Bodø; blowing very freshly on our extreme north-western coasts. No great change later.

Barometer highest, 30.1 ins. and more to 29.9 ins. over the southern countries, including nearly the whole of England and all of north Germany. Lowest, below 29.4 ins. over the northern half of Scandinavia. Falling slowly later over our Islands and their neighbourhood, as well as (to a slighter extent) over southern Europe.

Wednesday, 3rd August.

Temperature and Weather.

8 a.m.



Weather in morning fine and bright over the Mediterranean, France, Germany, the south and east of England and the east of Scotland; dull and rainy over our western and north-western districts, as well as in Norway and Denmark. Rain later over almost the whole of our Islands and the Netherlands; the amounts being considerable over many parts of Ireland and England, slight elsewhere. Thunder and lightning observed in a few parts of our Islands and in the south of France.

Temperature in morning highest, 77° at Brindisi, and above 70° at most of the Mediterranean and Adriatic stations, as well as over south-eastern Europe generally; 65° to 60° over England and the south-east of Ireland, as well as at the Baltic stations, and in some parts of Finland. Lowest, 53° at Bodø and Sumburgh Head, 54° at Skudesnaes, and below 60° at the Scotch and Norwegian stations generally. Rising later to between 70° and 78° over the greater part of England to 81° at Berlin, 82° at Paris, to upwards of 85° in the southern parts of France, to 61° at Palermo, to 104° at Annale, and to 109° at Laghouat.

Barometer and Wind.

8 a.m.



6 p.m.



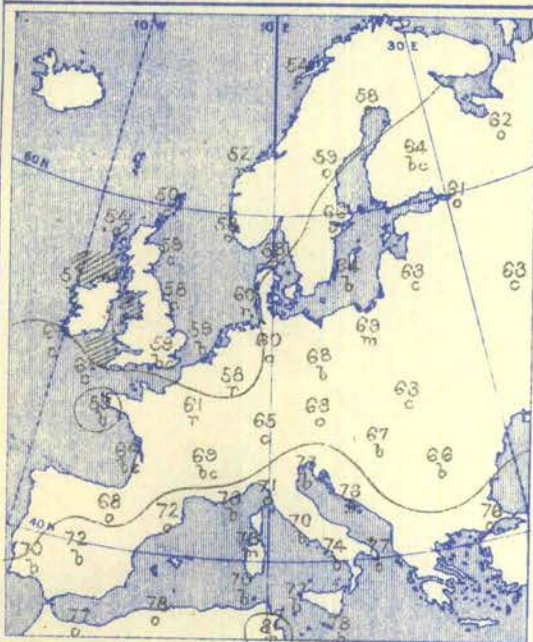
Wind (1) light and anticyclonic over France, Germany, south-eastern and southern Europe, as well as over the Mediterranean; (2) Westerly and South-Westerly over the British Islands, the North Sea and the Baltic, very variable over the northern parts of Scandinavia; becoming much stronger from South-West for a time over England later, but subsequently veering to North-West, and moderating.

Barometer highest, 30.1 ins. and more to 29.9 ins. over all the southern half of Europe and the southern counties of England. Lowest below 29.4 ins. over the Shetland Islands and off the north-west coast of Norway. Rising later over the northern countries, but falling fast locally over the southern parts of England and the north-east of France.

Thursday, 4th August.

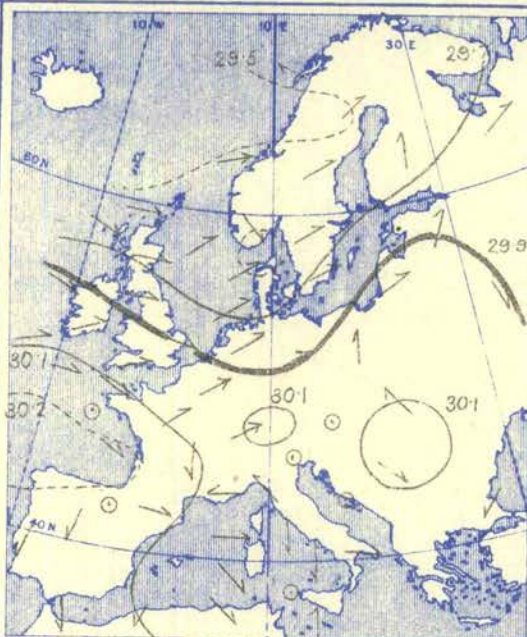
Temperature and Weather.

8 a.m.

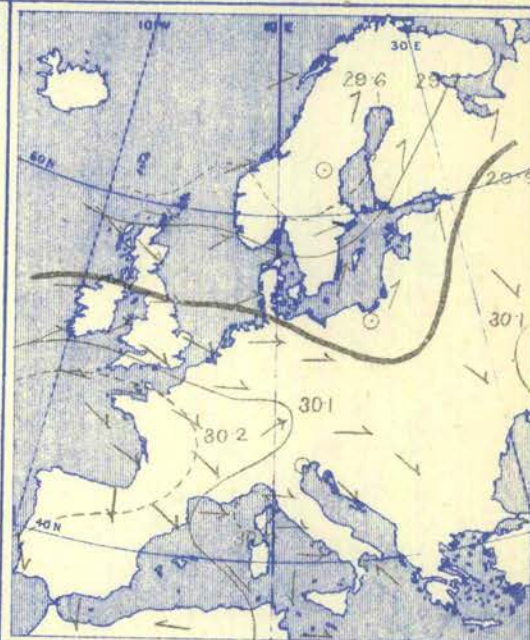


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning varying exceedingly over Europe and our Islands, cloudy and rather showery in most places, but temporarily bright from time to time in many parts of our Islands. Rain falling later over the greater part of the Kingdom and the north of France—heavily over Ireland and some of the northern parts of England, but in small quantities elsewhere and on the eastern shores of the North Sea.

Temperature falling temporarily over England, France, and the North Sea, rising over central Europe. Morning readings highest, 78° at Algiers, 77° at Tunis and Brindisi, and above 70° over southern Europe generally; much above 60° over central Europe, and slightly so over Russia, and over the southern parts of England. Lowest, 50° at Sumburgh Head, 52° at Christiansund, 53° at Skudesnaes, 54° in the extreme north of Scotland. Not rising above 70° to 71° over England later, and 75° at Paris, but touching 81° at Berlin, 91° at Cagliari, and 107° at Aumale.

Wind mainly from South-West in the countries lying to the eastward of the North Sea. Westerly to North-Westerly in our Islands, and moderate to fresh in force as a whole. Light to moderate, and anticyclonic, over the southern countries and the Mediterranean. Moderating over our Islands later, and tending to back again in the west of Ireland.

Barometer in morning 30.2 ins. and more to 30.0 ins. over the south-western parts of the Continent, 30.1 ins. and more to 30.0 ins. in the south-east. Lowest, below 29.5 ins. over the northern parts of Norway and Sweden, and below 29.6 ins. in a well-marked secondary over the Skager Rock. Rising later over north-western Europe as a whole, but inclined to fall again in the west of Ireland.

Friday, 5th August.

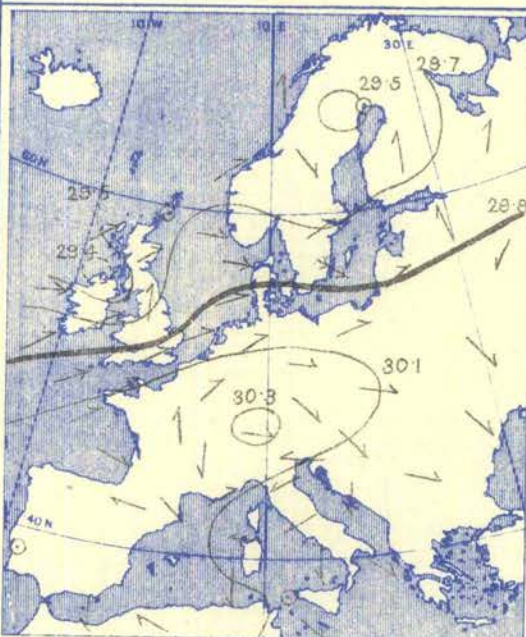
Temperature and Weather.

8 a.m.

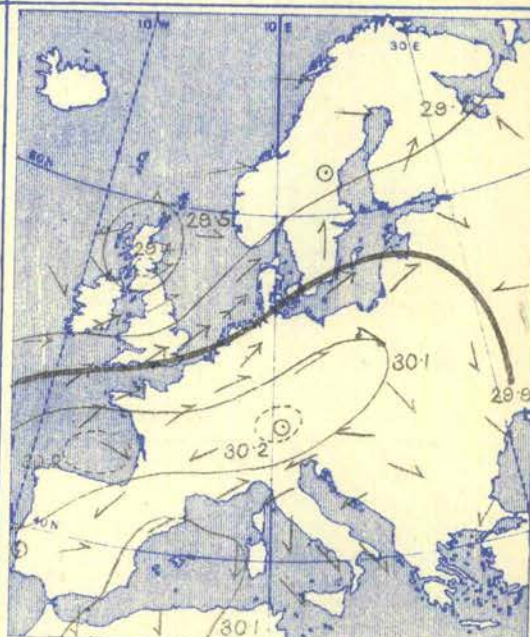


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over France and the greater part of Germany, as well as over the south of Sweden; fair over the west of Norway; dull over the British Islands and rainy over the western and north-western districts generally. Rain falling later in almost all parts of our Islands, but not in very large quantity, weather gusty and unsettled over Ireland and England, but remaining fine over Spain, France and central Europe.

Temperature changing rather irregularly. Morning readings highest, 78° at Trieste and Algiers, 77° at Oran, Palermo and Malta, and above 70° over southern Europe generally; above 60° over the greater part of the United Kingdom, Germany and Russia. Lowest, (1) 50° to 53° over the west of Norway and the north of Scotland, 54° at Shields; (2) 57° at Münster and Weisbaden, 59° at Paris and Munich. Rising later to between 70° and 74° in many parts of England to 77° at Cambridge, 81° at Paris, and 91° at Perpignan.

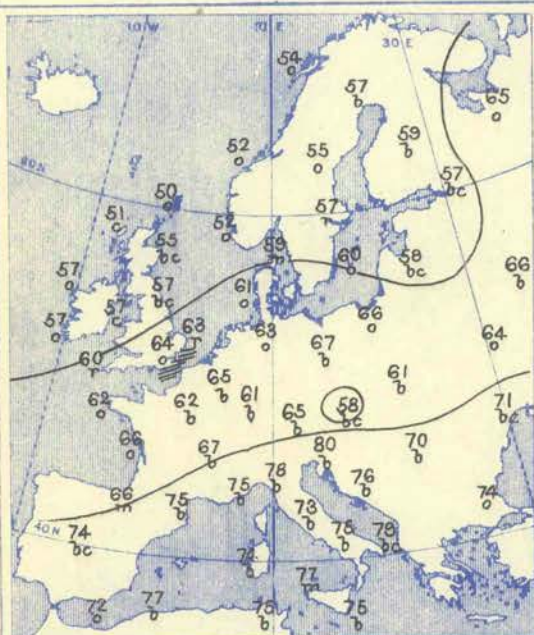
Wind light to moderate and anticyclonic over Spain, France and Germany; South-Westerly to Southerly over Ireland and England, and blowing strongly in several places; light and variable in Scotland. Blowing a moderate to fresh gale over the English Channel and on the Dutch coasts later, and shifting to the Eastward at several of the Scotch stations.

Barometer highest, 30.32 ins. at Munich, and ranging between that value and 30.0 ins. over the western, central and southern parts of Europe generally. Lowest, below 29.5 ins. in the north of Sweden, and below 29.4 ins. in a small well-formed depression between Argyllshire and the north of Ireland. Latter disturbance moving north-eastwards later, but barometer continuing to fall on all our coasts.

Saturday, 6th August.

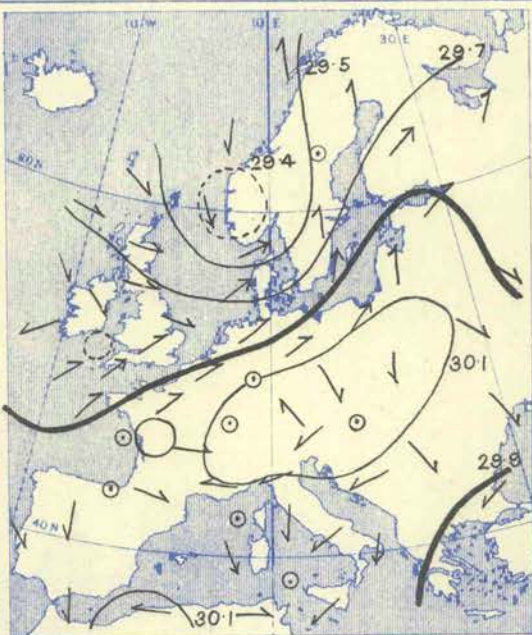
Temperature and Weather.

8 a.m.

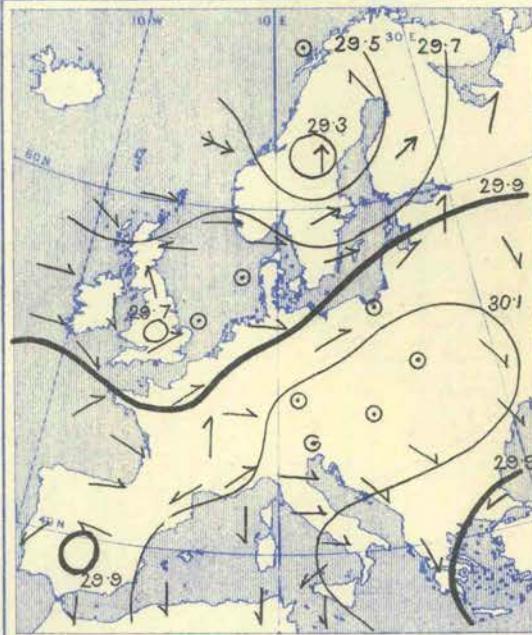


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the central, eastern, south-eastern, and southern countries, and the Mediterranean; very unsettled and changeable in the north, with rain in several places, and especially over the south-western parts of England. Large quantities falling later over many parts of England, thunder and lightning reported over the southern half of the country, and a very heavy rainfall at Cuxhaven. Ireland and Scotland comparatively fine.

Temperature falling fast in Ireland, rising over Germany, changing little elsewhere. Morning readings highest, 80° at Trieste, 79° at Brindisi, and exceeding 70° at almost all the Mediterranean stations; above 60° over Germany, France, and the southern half of England. Lowest, below 60° over Finland, Scandinavia, the northern parts of Great Britain, and apparently all over Ireland, and as low as 50° at Sumburgh Head, 53° at Wick, 55° at Malin Head, and 56° at Parsonstown. Rising later to a little above 60° over Ireland and Scotland, to between 63° and 69° over England, to 86° at Berlin, 83° at Belfort, and 87° at Perpignan.

Wind (1) light and anticyclonic over France, the Mediterranean, central, and eastern Europe. Cyclonic over the northern and north-western parts of the Continent, viz., Westerly to South-Westerly, moderate to fresh, over Great Britain; South-Westerly, strong, over Holland, and blowing a gale over parts of the Mediterranean; Southerly to Easterly, light, in the north-west of Norway. A small independent cyclonic system over the Bristol Channel and Cornwall. Latter system spreading eastwards later.

Barometer highest, 30.1 ins. and more to 29.9 ins. over the central, western, and southern countries. Lowest, 29.4 ins. and less over the northern half of Norway, and about 29.8 ins. in a local system over Cornwall and the Bristol Channel. Latter system spreading north-eastwards later, and undergoing considerable development—former (larger) system filling up.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\circ$ = a calm. In the left-hand Chart the weather is indicated as follows: $\circ$ = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

In the course of this week a decided change has taken place in the distribution of pressure over the whole of Europe and the Mediterranean. On Monday the barometer was highest over Ireland, England, France, Germany, and the Mediterranean—the readings ranging from 30.2 ins. to 30.0 ins. It was lowest (29.4 ins. to 29.6 ins.) over western Russia, Finland, and the Baltic, and was giving way rather decidedly over the northern parts of the British Islands. The high-pressure area then moved slowly to the southward and eastward, the depression over Russia and the Baltic filled up, and the depressions which reached the north-western coasts of our Islands moved in tracks lying further to the southward than those previously experienced.

By Wednesday morning the high-pressure system was confined to the southern half of Europe, and the depressions, as they moved over the north-western countries, caused the rainy weather to spread over all but the southern parts of the Kingdom, and to fall heavily in many places. During the remainder of the week this tendency continued, though somewhat irregularly. Gales from South-West were experienced over many parts of England on Friday and Saturday, and in all respects the weather became thoroughly unsettled over our Islands and south-western Europe, and temperature fell decidedly.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 182.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	33.7	?	39	?	WESTBOURNE (Emsworth)	52.9*	+ 5.9	50*	+ 5
STRATHPEFFER SPA	24.6	- 2.2	22	- 1	WATERGATE (Emsworth)	33.1	?	36	?
EDINBURGH	27.6	- 4.4	25	- 5	BRIGHTON	51.2	+ 3.1	49	+ 2
MORPETH	39.3	?	36	?	EASTBOURNE	70.1	+22.1	67	+22
NEWCASTLE-ON-TYNE	32.0	?	29	?	VENTNOR HOSPITAL	63.9	?	61	?
OSWALDKIRK (Yorkshire)	34.7	+ 1.3	32	+ 2	SOUTHPORT	26.3	?	24	?
HOLLESLEY BAY	55.7	?	53	?	COLWYN BAY	26.6	?	25	?
SHEFFIELD	39.0	?	31	?	TENBY	36.8*	- 5.2	35*	- 5
WORKSOP	33.3	- 1.9	31	- 1	NEWQUAY	40.3	- 4.7	39	- 5
THURCASTON (Leicestershire)	45.5	+ 8.7	43	+ 9	TORQUAY	40.7*	- 5.3	39*	- 3
PLUMSTEAD COMMON	53.6	?	51	?	GUERNSEY	75.8*	+23.4	74*	+23
MARGATE	61.6	+18.5	59	+19					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.VOL. XV. No. 32.]
Third Series.

WEEK ENDING SATURDAY, AUGUST 13TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 188.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	76	40	63.4	48.8	55.7	1 above	Day-deg. 96	Day-deg. + 9	Day-deg. 0	Day-deg. 0	Day-deg. 1297	Day-deg. +136	Day-deg. 395	Day-deg. -228
	1. SCOTLAND, EAST	80	39	68.6	48.2	57.8	1 above	111	+ 8	0	0	1529	+ 94	427	-222
	2. ENGLAND, N.E.	83	42	68.4	50.5	58.9	1 above	118	+ 3	0	0	1623	+118	333	-216
	3. ENGLAND, EAST	85	42	69.1	51.5	59.8	1 below	125	- 1	0	0	1810	+ 35	410	-207
	4. MIDLAND COUNTIES	85	43	69.8	50.8	59.7	0 (average)	124	+ 3	0	0	1829	+ 39	404	-215
	5. ENGLAND, SOUTH	85	45	68.1	53.6	60.4	1 below	129	- 4	0	0	1990	+ 81	234	-243
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	80	35	66.0	51.1	58.1	1 above	113	+ 8	0	0	1640	+129	245	-217
	7. ENGLAND, N.W.	81	45	68.1	53.0	60.1	1 above	127	+11	0	0	1755	+133	215	-244
	8. ENGLAND, S.W.	83	40	67.1	53.3	59.8	0 (average)	125	+ 4	0	0	1951	+135	205	-156
	9. IRELAND, NORTH	74	40	65.5	51.0	57.8	0 (average)	111	+ 5	0	0	1734	+124	227	-168
	10. IRELAND, SOUTH	75	43	66.2	53.9	59.7	1 above	124	+ 9	0	0	2049	+218	165	-134
	-CHANNEL ISLANDS-	78	51	68.3	50.8	62.3	1 above	142	+ 8	0	0	2295	+266	55	- 93

DISTRICTS. (See p. 188.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 13	10ths of in. 4 more	160	+16	Ins. 34.1	+ 7.0	37	+13	34	+12	854	+68	28	+ 2	
	1. SCOTLAND, EAST	4	10	2 more	120	+ 3	15.0	- 2.9	52	+20	48	+19	959	+56	32	+ 2	
	2. ENGLAND, N.E.	3	4	3 less	109	- 1	12.4	- 2.4	33	- 2	31	- 1	888	+ 9	31	+ 1	
	3. ENGLAND, EAST	4	7	1 more	101	- 6	12.3	- 2.4	40	- 5	39	- 3	992	-79	33	- 3	
	4. MIDLAND COUNTIES	4	3	4 less	100	- 5	11.6	- 4.4	33	- 4	32	- 3	960	+22	33	0	
	5. ENGLAND, SOUTH	2	7	1 more	92	- 8	11.2	- 4.6	40	- 3	38	- 3	988	-74	35	- 3	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	15	5 more	137	+14	23.6	- 3.3	43	+ 7	40	+ 6	1002	+ 88	35	+ 3	
	7. ENGLAND, N.W.	4	12	3 more	116	+ 3	20.2	+ 1.6	37	+ 4	36	+ 5	1052*	+119	37	+ 4	
	8. ENGLAND, S.W.	3	2	3 less	105	- 9	16.8	- 4.4	43	0	42	0	1183	+ 36	41	+ 2	
	9. IRELAND, NORTH	5	16	7 more	146	+13	21.1	0.0	40	+13	38	+12	918	+ 31	31	+ 1	
	10. IRELAND, SOUTH	5	16	7 more	113	- 8	20.4	- 1.9	40	+ 8	38	+ 8	1020	+ 21	35	+ 1	
	- CHANNEL ISLANDS-	3	8	2 more	120	+ 1	14.0	- 3.5	55	+ 2	54	+ 3	1328	+ 40	47	+ 2	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather was rainy and very unsettled generally during the earlier part of this week, but after Tuesday it cleared up over England, and subsequently over the eastern parts of Ireland, and Scotland also; in the extreme west, however, rain continued to fall daily.

Temperature was, as a whole, slightly above the mean for the time of year, except over the Midland counties, England S.W., and Ireland N., where the average values for the week were identical with the mean values for the time of year. The highest of the maximum were registered towards the end of the week, and ranged from 85° over England S., E., and Midland counties, 83° over England S.W. and N.E., and 89° over Scotland E. and W., to 78° in the Channel Islands, 76° in Scotland N., and 74° in Ireland N. The lowest of the minima occurred during the earlier half of the week, and were as low as 35° in Scotland W., and 39° in Scotland E., but exceeded 40° over the greater part of England, and were not lower than 51° in the Channel Islands.

Rainfall was in excess of the mean, except over England S.W., the Midland counties, and England N.E., where there was a deficiency. On the extreme west coasts of Ireland the fall was very large.

Bright Sunshine was greatest over the Channel Islands and Scotland E., but was slightly deficient over England. The percentage of the possible duration ranged from 54 in the Channel Islands, 48 in Scotland E., and 42 in England S.W., to 34 in Scotland N., and 32 in England N.E.

Barometer and Wind.—At the commencement of the week a series of depressions covered the southern and south-eastern parts of our area, and subsequently moved north-eastwards to the Baltic, while in the north of our Islands the weather was fine. Later on, however, these depressions filled up, and pressure in those regions became more uniform, while the disturbances which reached our western coasts from the Atlantic passed away in a northerly or north-easterly direction—affecting our extreme western and northern coasts only. That of Thursday night caused heavy rains at Valencia, Belmullet, and Stornoway, while all the more eastern stations escaped without rain.

II.—DATA from which the SUMMARY on page 187 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine					
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.		
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.									Below 42° F.	
0. SCOTLAND, N.	Sumburgh Head	64	42	57.3	46.0	51.5	- 1.7	67	0	3	1.52	+ 0.80	*	*	*	*		
	Stornoway	66	42	60.3	47.9	53.7	- 0.8	82	0	7	2.78	+ 1.97	32.2	+ 5.3	30	+ 6		
	Wick	70	40	62.6	47.9	54.8	- 0.1	90	0	6	0.83	+ 0.21	*	*	*	*		
	Laing	73	43	67.0	49.7	57.8	+ 3.2	111	0	4	1.05	+ 0.35	*	*	*	*		
	Glencarron	76	40	64.4	49.7	56.6	+ 1.9	102	0	6	0.77	- 0.76	*	*	*	*		
	Fort Augustus	76	40	67.2	49.4	57.8	+ 1.1	111	0	7	0.74	- 0.03	36.1	+19.7	33	+18		
1. SCOTLAND, E.	Fort William	76	43	65.1	50.7	57.5	+ 0.5	109	0	6	1.34	- 0.03	37.3	+16.8	35	+16		
	Nairn	76	39	68.7	48.1	57.8	+ 0.8	111	0	4	0.60	- 0.10	*	*	*	*		
	Aberdeen	75	44	67.6	48.9	57.7	+ 1.0	110	0	3	0.88	+ 0.10	59.6	+25.6	55	+19		
	Braemar	74	39	65.1	45.2	54.5	+ 0.8	88	0	5	1.50	+ 0.70	50.2†	+23.9†	46†	+22†		
	Ochertyre	79	40	69.9	48.6	58.6	+ 1.1	116	0	5	1.60	+ 0.70	*	*	*	*		
	Leith	78	45	71.3	50.7	60.4	+ 1.7	129	0	4	0.59	- 0.09	*	*	*	*		
2. ENGLAND, N.E.	Marchmont	80	42	69.1	47.9	57.9	+ 1.7	111	0	4	0.58	- 0.27	56.0	+21.0	52	+20		
	Alnwick Castle	76	42	68.3	48.3	57.7	+ 1.0	110	0	4	0.47	- 0.27	*	*	*	*		
	Durham	81	42	71.0	50.7	60.2	+ 1.9	127	0	3	0.27	- 0.44	42.6	+ 8.9	40	+ 9		
	Shields	77	45	68.0	50.0	58.5	+ 0.8	116	0	3	0.32	- 0.36	*	*	*	*		
	Scarborough	78	47	66.7	51.9	58.9	+ 0.2	118	0	2	0.33	- 0.34	25.0	?	24	?		
	York	83	44	70.7	48.9	59.2	0.0	120	0	3	0.59	- 0.06	728.1	?- 6.7	? 27	?- 6		
3. ENGLAND, E.	Spurn Head	77	50	65.6	53.1	59.0	- 0.5	119	0	2	0.32	- 0.13	*	*	*	*		
	Hillington	83	42	69.5	50.7	59.5	- 0.9	123	0	4	0.61	- 0.09	35.0	- 5.8	34	- 4		
	Yarmouth	70	50	64.9	53.9	59.1	- 1.5	120	0	4	0.86	+ 0.26	*	*	*	*		
	Geldeston	85	46	70.8	52.5	61.1	+ 0.6	134	0	4	0.95	+ 0.42	41.3	- 2.5	40	- 2		
	Cambridge	85	42	71.4	50.3	60.2	- 1.0	127	0	4	0.47	- 0.11	40.0	- 1.7	39	0		
	Rothamsted	82	42	68.9	50.2	59.0	- 1.3	119	0	2	0.39	- 0.22	35.9	- 7.7	35	- 7		
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	85	45	71.6	50.7	60.5	+ 0.9	130	0	4	0.40	- 0.18	*	*	*	*		
	Loughborough	83	46	71.3	50.7	60.4	- 0.6	129	0	4	0.30	- 0.26	*	*	*	*		
	Stamford (Duddington)	83	43	70.1	49.7	59.3	- 1.9	121	0	3	0.21	- 0.38	*	*	*	*		
	Cheadle	79	45	66.7	51.1	58.4	+ 0.7	115	0	3	0.37	- 0.43	*	*	*	*		
	Shirley (near Solihull)	80	44	68.4	50.2	58.8	- 1.5	118	0	5	0.20	?	*	*	*	*		
	Churchstoke	80	44	70.4	51.6	60.4	+ 0.3	129	0	4	0.12	- 0.46	*	*	*	*		
5. ENGLAND, S.	Hereford	81	45	70.0	50.6	59.7	+ 1.1	124	0	3	0.23	- 0.52	47.1	- 6.3	46	- 7		
	Cirencester	81	46	69.9	51.7	60.3	- 0.3	128	0	2	0.40	- 0.18	34.8	- 7.2	34	- 7		
	Oxford	85	45	71.1	52.7	61.4	- 0.7	136	0	1	0.63	+ 0.06	34.2†	- 4.3†	33†	- 4†		
	London	80	52	67.3	54.9	60.7	- 0.1	131	0	2	0.94	?	*	*	*	*		
	North Foreland	80	45	69.1	50.6	59.3	- 2.7	121	0	2	0.60	?	*	*	*	*		
	Cranley	74	48	65.9	54.6	59.9	- 1.8	125	0	2	1.03	+ 0.53	*	*	*	*		
6. SCOTLAND, W.	Dungeness	77	48	66.9	53.9	60.0	- 1.4	126	0	2	0.84	+ 0.24	46.6	- 1.4	45	- 1		
	Hastings (St. Leonards)	78	49	69.4	53.8	61.1	- 0.9	134	0	3	0.49	- 0.17	38.0	- 8.0	37	- 7		
	Southampton	76	50	68.3	56.3	61.9	- 0.2	139	0	3	0.67	+ 3.09	*	*	*	*		
	Hurst Castle	75	46	67.1	51.9	59.0	- 0.3	119	0	4	0.45	- 0.23	*	*	*	*		
	Shaftesbury	72	45	65.6	52.8	58.8	+ 2.1	118	0	6	1.18	- 0.07	*	*	*	*		
	Laudale (Loch Sunart)	76	45	66.7	51.1	58.4	+ 1.5	115	0	6	1.73	+ 0.82	36.9	+ 7.1	34	+ 6		
7. ENGLAND, N.W.	Glasgow	70	45	64.1	52.7	58.1	+ 0.4	113	0	5	1.35	+ 0.48	*	*	*	*		
	Ardrossan	75	35	66.9	47.5	56.6	- 0.4	102	0	6	2.06	+ 3.96	*	*	*	*		
	Glenlee	80	45	67.3	51.2	58.8	+ 1.6	118	0	5	0.86	?	46.7	?	44	?		
	Gilcrux (Cumberland)	69	42	65.4	51.5	58.0	+ 0.9	112	0	3	1.92	+ 1.04	44.4	+ 5.7	42	+ 6		
	Douglas (Isle of Man)	77	45	66.7	51.6	58.7	+ 0.6	117	0	4	1.93	+ 0.75	35.2	+ 2.2	34	+ 3		
	Stonyhurst	80	46	69.3	52.9	60.6	+ 1.1	130	0	5	1.54	+ 0.70	41.3	+ 5.5	39	+ 6		
8. ENGLAND, S.W.	Manchester (Prestwich)	81	46	68.8	51.7	59.7	+ 0.9	124	0	3	0.91	+ 0.01	31.7	?	30	?		
	Liverpool Obsy. (Bidston)	80	51	69.4	54.1	61.3	+ 1.5	135	0	4	0.52	- 0.19	*	*	*	*		
	Llandudno	77	47	68.3	53.5	60.5	0.0	130	0	3	1.15	+ 0.52	38.7	+ 4.3	37	+ 4		
	Holyhead	75	50	66.3	54.0	59.8	+ 0.6	125	0	3	0.88	+ 0.21	*	*	*	*		
	Llandoverly	83	40	70.3	49.9	59.5	+ 0.4	123	0	5	2.16	+ 1.07	*	*	*	*		
	Pembroke	67	52	63.4	55.7	59.3	+ 0.2	121	0	4	0.43	- 0.25	31.3	-10.5	30	-11		
9. IRELAND N.	Clifton	74	47	66.3	52.6	59.0	+ 0.6	119	0	4	0.18	- 1.09	*	*	*	*		
	Arlington (N. Devon)	79	46	70.1	51.6	60.3	0.0	128	0	3	0.16	- 0.51	41.4	+ 2.6	40	+ 3		
	Cullompton	71	54	67.7	55.7	61.3	+ 0.7	135	0	0	—	- 0.83	50.5	+ 5.2	50	+ 6		
	Falmouth	72	45	66.9	54.0	60.1	- 1.3	127	0	3	0.20	- 0.53	45.9	+ 3.8	45	+ 4		
	Plymouth	70	47	65.3	53.6	59.1	- 0.6	120	0	3	0.54	- 0.06	*	*	*	*		
	Prawle Point	69	50	62.7	53.9	58.0	+ 0.5	112	0	4	0.56	?	*	*	*	*		
10 IRELAND S.	Londonberry	74	43	68.5	51.0	59.2	+ 1.3	120	0	5	1.14	+ 0.20	*	*	*	*		
	Edenfel (Omagh)	70	40	65.6	50.4	57.5	+ 1.1	109	0	5	1.44	+ 0.53	*	*	*	*		
	Belmullet	66	43	62.7	53.6	57.9	- 0.3	111	0	7	2.38	+ 1.29	*	*	*	*		
	Markree Castle	72	40	66.2	50.0	57.6	+ 0.5	109	0	6	1.76	+ 0.80	37.9	+11.7	36	+11		
	Armagh	73	40	67.1	50.4	58.3	+ 0.9	114	0	6	1.33	+ 0.58	41.7	+15.5	40	+15		
	Donaghadee	74	41	66.4	52.0	58.8	+ 1.4	118	0	6	2.05	+ 1.29	*	*	*	*		
CHANNEL ISLANDS	Edgeworthstown	70	40	65.0	46.7	55.3	- 2.0	93	0	4	1.86	+ 0.86	*	*	*	*		
	Dublin	73	47	68.2	54.4	60.9	+ 1.4	132	0	5	0.87	+ 0.16	45.9	+11.1	44	+11		
	Parsonstown	72	43	66.6	52.1	58.9	+ 0.7	118	0	6	1.91	+ 1.03	35.5	+ 5.9	34	+ 6		
	Kilkenny	75	44	67.1	52.3	59.3	+ 0.7	121	0	3	1.42	+ 0.67	*	*	*	*		
	Roche's Point	64	49	63.9	54.9	59.1	- 0.6	120	0	4	1.25	+ 0.35	*	*	*	*		
	Valencia	68	49	65.1	55.3	59.9	+ 1.0	125	0	6	2.10	+ 1.05	37.7	+ 5.1	37	+ 6		
CHANNEL ISLANDS	Killarney	70	45	66.0	54.4	59.9	+ 1.2	125	0	6	1.88	?	*	*	*	*		
	Foyne	71	46	66.7	54.1	60.0	+ 1.7	126	0	6	1.68	?	*	*	*	*		
CHANNEL ISLANDS	Scilly (St. Mary's)	70	54	67.0	56.9	61.7	+ 1.0	138	0	3	0.74	+ 0.13	52.6	?	52	?		
	Jersey	78	51	69.6	56.7	62.8	+ 0.1	146	0	2	0.94	+ 0.34	61.4	+ 7.9	60	+ 8		

Stations marked *ft* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 7th August.

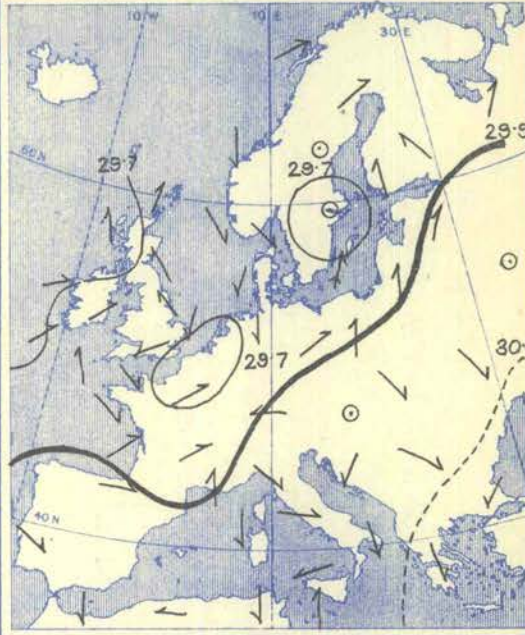
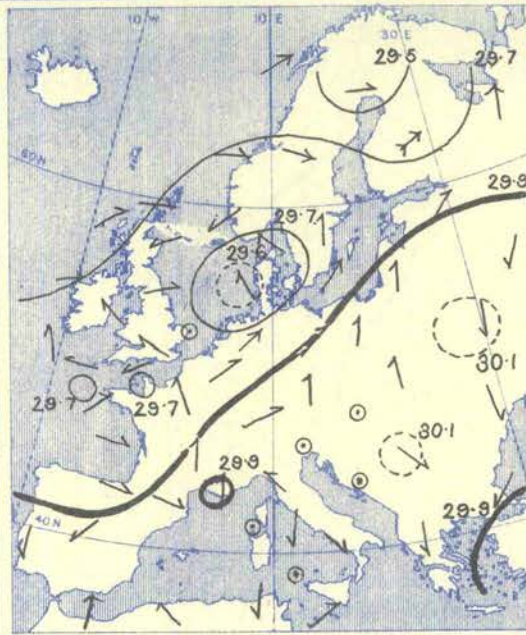
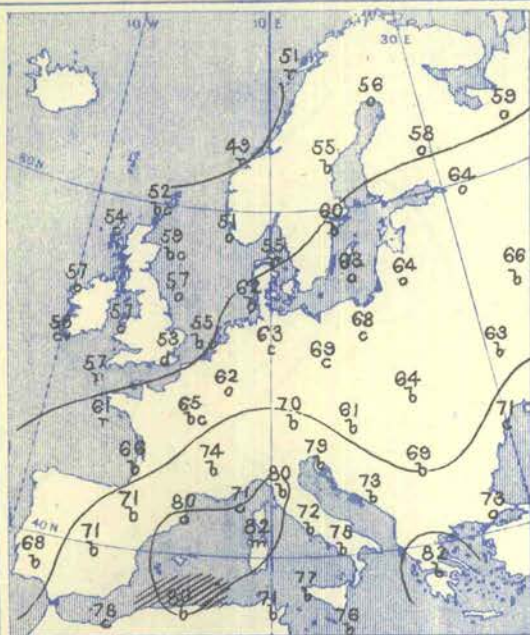
Temperature and Weather.

Barometer and Wind.

8 a.m.

8 a.m.

6 p.m.



Weather in morning fine and bright over south-western, southern, and eastern Europe, but exceptionally disturbed over our south-western and southern districts, and the extreme north of France, with rain in many places. Rain falling later (1) over Scandinavia, and the north and north-west of our Islands, and (2) in large quantities over the south-west and south of England, the Netherlands, and many parts of France, thunder reported at Aberdeen, and thunderstorms in the south-east and south of France.

Temperature giving way considerably over the United Kingdom. Morning readings below 60° all over our Islands, but exceeding 70° over southern Europe, and as high as 80° at Barcelona, Leghorn, and Algiers. Not touching 60° over our south-eastern counties all day, and not rising above 54° in London, 56° at the North Foreland, and 57° at Oxford, Cambridge, and Yarmouth, but exceeding 60° over Ireland and Scotland, and touching 81° at Paris, 84° at Berlin, and 90° to 91° over the inland parts of the southern half of France. Falling to 42° at Cambridge, and 45° in London during succeeding night. [Exceptionally cold day for time of year over the south-east and east of England.]

Wind (1) light from South-West over the north-western and northern parts of our Islands, and in the north-west of Norway. Light at the more southern stations, and circulating in complex cyclonic systems over the south-western and southern parts of our Islands, the northern parts of France, and the eastern shores of the North Sea. Light from between South and West in the south of France, but blowing hard from South-West over Finland. Extremely light over south-eastern and southern Europe, and the Mediterranean. Freshening from East to North-East over the south-eastern counties of England later.

Barometer highest 30.0 ins. and more over all the most eastern and southern countries. Lowest, below 29.5 ins. over the north of the Gulf of Bothnia; below 29.6 ins. over the eastern side of the North Sea (near Fano), and below 29.7 ins. in a double depression lying over the western part of the English Channel, and the north-west of France. Later system becoming simpler later and moving north-eastwards, but pressure-distribution remaining very complex.

Monday, 8th August.

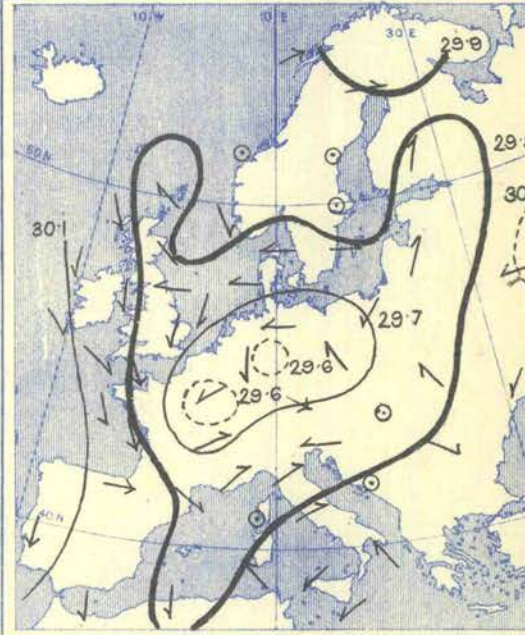
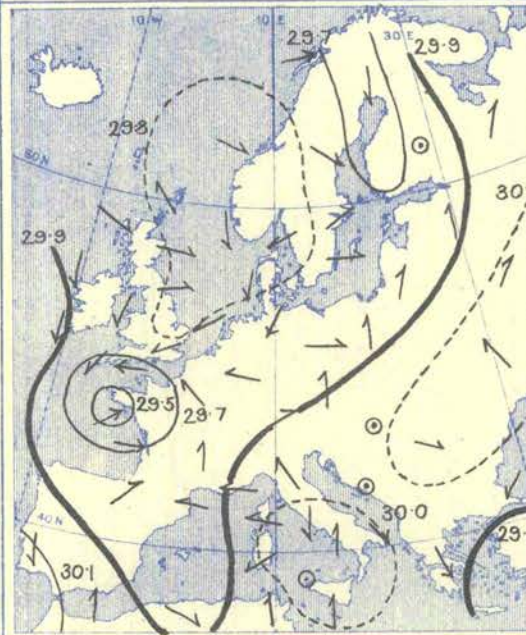
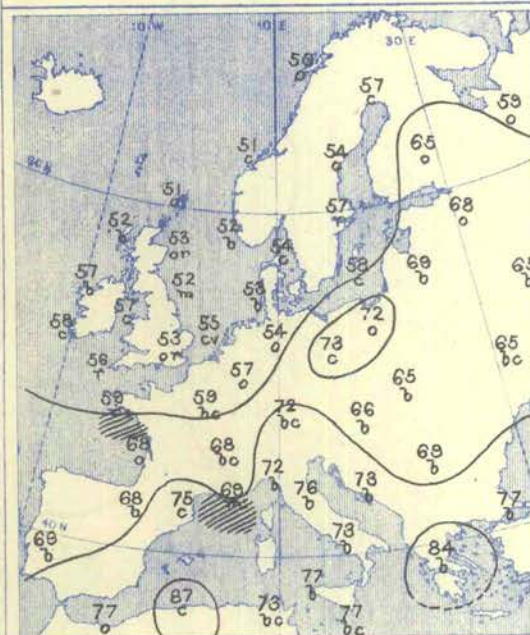
Temperature and Weather.

Barometer and Wind.

8 a.m.

8 a.m.

6 p.m.



Weather in morning fine over the Mediterranean, southern and eastern Europe; fair over Scandinavia, the greater part of Scotland and Ireland, but very rainy, gusty and unsettled over France, the English Channel and the extreme southern parts of England. Heavy rains falling later over France and Belgium, the falls exceeding an inch in several places, and amounting to 1.54 ins. at Brussels. Very slight showers over Ireland and Scotland, but nearly an inch at Sumburgh Head. Thunderstorms occurring in the north-east of Great Britain.

Temperature in morning highest, 87° at Algiers, 84° at Patras; exceeding 70° at almost all the Mediterranean stations; 73° at Berlin, 72° at Prague and Munich, 72° at Neufahrwasser, 70° at Memel. Lowest, (1) 50° at Bodö, 51° at Christiansund, Sumburgh Head and Karlstad; (2) 49° at York, 51° at Loughborough and Oxford, 53° in London and at Parsonstown. Rising later to between 60° and 65° in many parts of our Islands, and touching 82° at Munich, and 80° to 86° over the southern half of France.

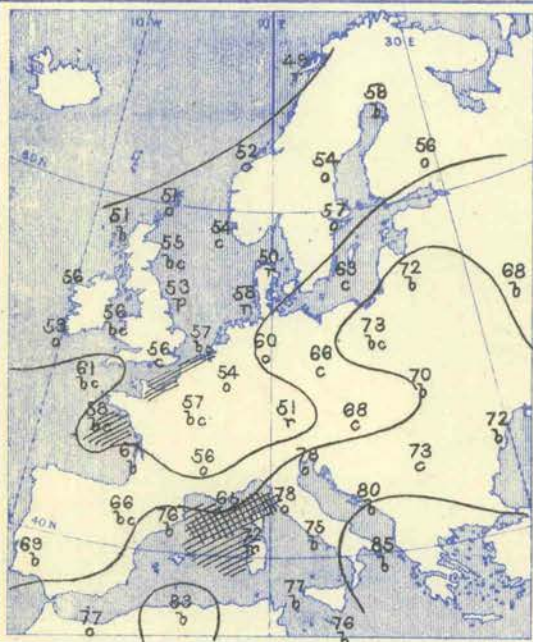
Wind very variable in direction; (1) Northerly over Ireland, Westerly or South-Westerly over the Bay of Biscay, South-Westerly to South-Easterly over France; Easterly on our southern coasts; (2) Southerly and South-Westerly over the Baltic, but Northerly and light over the northern parts of the Gulf of Bothnia. Becoming Northerly later all over our Islands, and freshening on our east coast.

Barometer highest, (1) 30.0 ins. and more to 29.9 ins. over the whole of eastern, south-eastern and southern Europe; (2) 30.1 ins. and more to 29.9 ins. over the Spanish Peninsula; (3) exceeding 29.9 ins. in the extreme west of Ireland, and exceeding 29.8 ins. over Norway, Denmark, the North Sea, and the north-east of England. Lowest, below 29.5 ins. in a well marked depression lying over Brittany. Rising quickly later over the British Islands and west of France as the depression named above moved eastwards and north-eastwards.

Tuesday, 9th August.

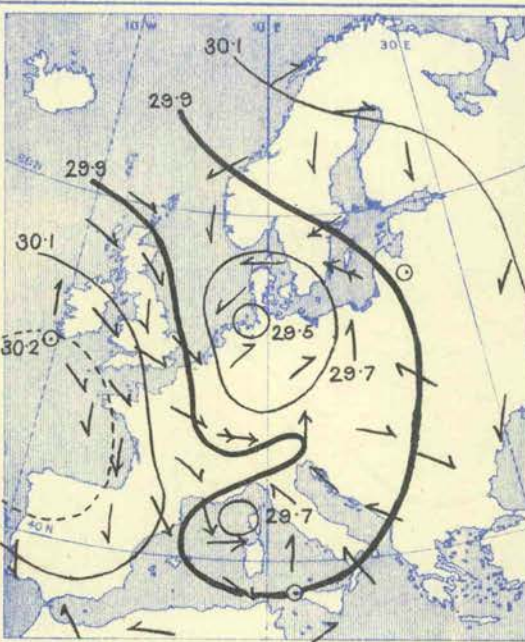
Temperature and Weather.

8 a.m.

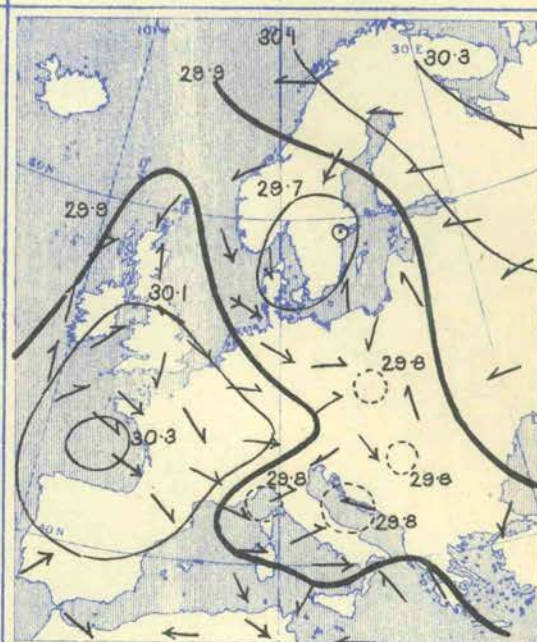


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning clearing up decidedly over the British Islands and west of France, but in a very rough and unsettled condition over the Baltic and the countries lying on the eastern side of the North Sea, as well as over the south-east of France and the south-eastern parts of the Mediterranean. Heavy rains falling later at Munich, and in many of the western and northern parts of our islands, and exceedingly heavy falls in various parts of Sweden, but weather continuing fair over the south and south-east of England and the greater part of France.

Temperature fallen somewhat over France and Germany; risen over Italy. Morning readings highest, 85° at Brindisi, 80° at Lesina, and 83° at Algiers; above 70° over the Mediterranean and south-eastern Europe, as well as at Neufahrwasser, Memel and Riga, 68° at Moscow. Lowest, 49° at Bodö, 51° in the north of Scotland, 53° at Shields and Oxford, 54° at Parsonstown. Rising later to between 63° and 69° in many parts of Ireland and England, to 71° at Hurst Castle, 72° at Berlin and 86° at Nice.

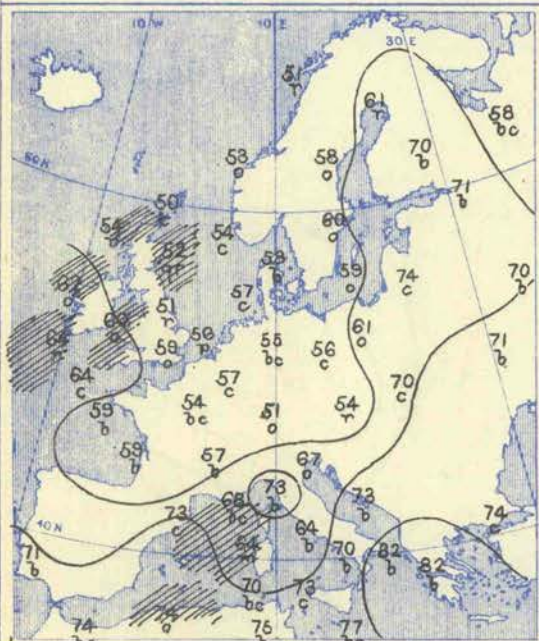
Wind North-Westerly to Northerly, moderate to light over the United Kingdom and west of France, strong from between North-West and South-West over the Netherlands and Germany; South-Easterly to Easterly over the Baltic and south of Scandinavia. Another cyclonic circulation prevailing over the Riviera, Corsica and the north of Italy. Backing to the Southward in the west of our Islands later and freshening.

Barometer in morning highest, (1) 30.2 ins. and more to 30.1 ins. in an anticyclone covering the western parts of our Islands, France and the Bay of Biscay; (2) 30.1 ins. and more to 30.0 ins. in another anticyclone over Russia, Finland and the northern half of Scandinavia. Lowest, 29.5 ins. and less in a depression over Holstein, and below 29.7 ins. in another one over the north-eastern parts of the Mediterranean. The German depression moving north eastwards later, but a fresh fall of the barometer setting in on our own western coasts.

Wednesday, 10th August.

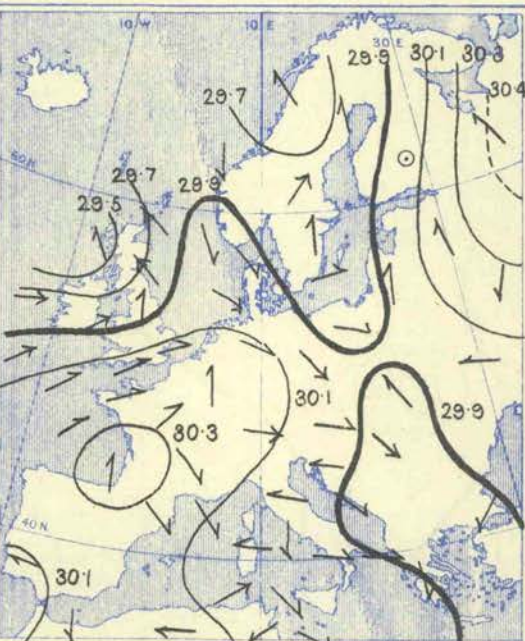
Temperature and Weather.

8 a.m.

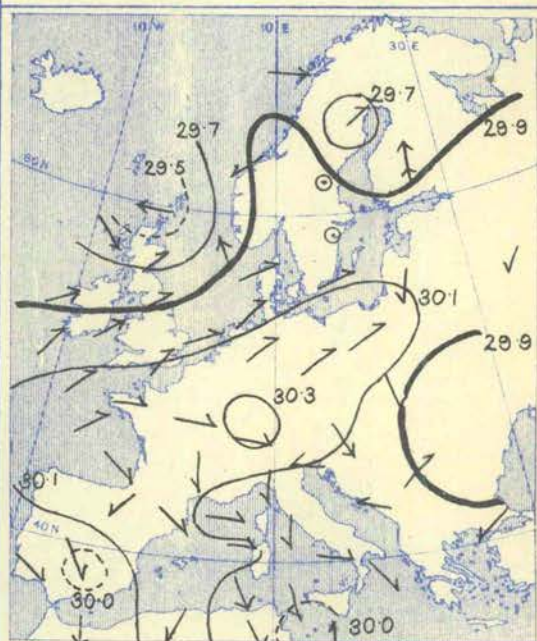


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine over Spain, France and western Germany, as well as over Finland and the north of Russia; dull and unsettled over our Islands, with rain in most places, but especially at the western and northern stations, as well as over many parts of Scandinavia. Further rain during the day over Ireland, the north-west and north of Great Britain, and many parts of Scandinavia, as well as small quantities over the south-east of England and the Netherlands.

Temperature risen very considerably over the western parts of our Islands, fallen fast over central Europe. Morning readings highest, 82° at the Greek stations, and exceeding 70° over the Mediterranean as a whole, as well as over central Russia and some parts of Finland; 60° to 65° at our western stations, 62° at Jersey. Lowest, (1) 50° at Sumburgh Head, and 52° to 53° over the north-east of Scotland generally; (2) 51° at Shields, 52° at York, 54° at Oxford; (3) 51° at Belfort and Munich, 52° at Münster, 54° at Paris. Rising later to between 70° and 74° at several of our northern and north-western stations to 72° at Paris, 79° at Nice, but not exceeding 66° at Berlin or 67° in London.

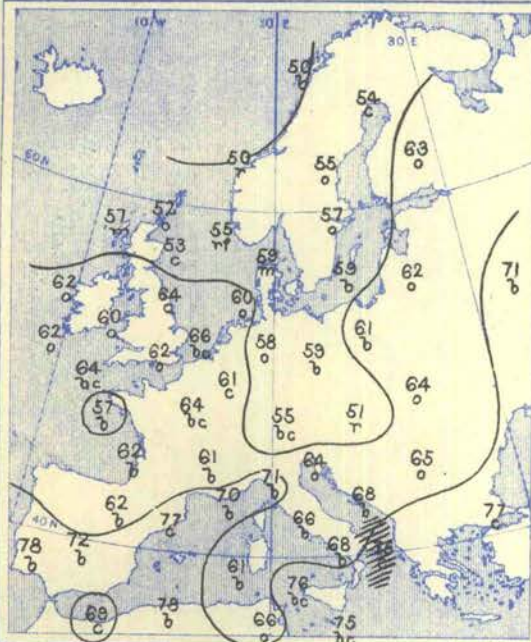
Wind (1) light and anticyclonic over Spain, France and western Germany, as well as over the northern half of Russia; (2) cyclonic over the British Islands and Scandinavia—Westerly and South-Westerly over Ireland and England, Southerly and South-Easterly over Scotland, and blowing a moderate gale at several of our north-western stations. Northerly to West-erly, however, in Norway, but Southerly over Sweden and Finland.

Barometer highest, (1) 30.4 ins. and more to 30.0 ins. over Russia and the eastern half of Finland; (2) 30.3 ins. and more to 30.0 ins. over Spain, France, western Germany, and the southern parts of England. Lowest, 29.5 ins. and less in a depression off the west coast of Scotland, and below 29.7 ins. in a shallow system over the north of Norway. The Scotch depression moving North-Eastwards later, and the barometer rising briskly on all our north-west coasts.

Thursday, 11th August.

Temperature and Weather.

8 a.m.

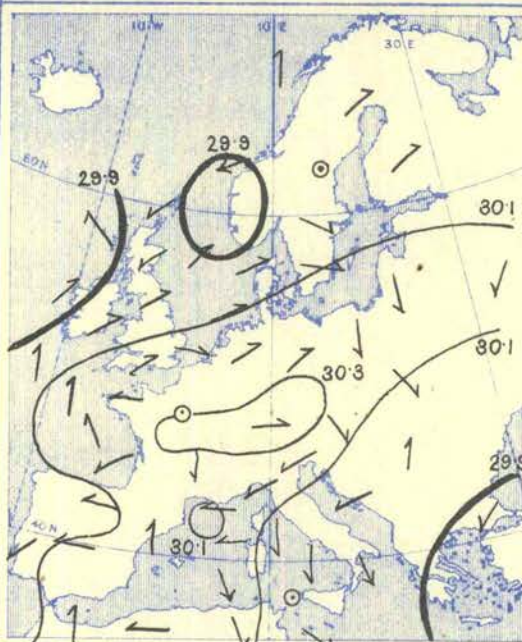


Weather in morning bright and fine over France, western Germany and the major part of Great Britain; dull and unsettled at our western and north-western stations and misty in places, as well as over the western parts of Norway. Heavy rains later in the extreme west of Ireland and the Hebrides; but weather remaining very fine all over Great Britain, France, Spain, and Germany.

Temperature in morning exceeding 70° over the Mediterranean, the Adriatic, and at Constantinople, as well as at Moscow; exceeding 60° over France and the British Islands, eastern Prussia, the Baltic Provinces, and central Finland. Lowest, (1) 50° on the north-west coasts of Norway, 52° at Sumburgh Head, 55° at Wick, 58° at Cuxhaven; (2) 51° at Vienna, 55° at Belfort and Munich, 56° at Prague, Breslau and Buda Pesth. Rising later to 77° in the north of England and at Oxford, 80° at Cambridge and in London, to 73° at Berlin, 79° at Paris, 81° at Nice, and 99° at Rochefort.

Barometer and Wind.

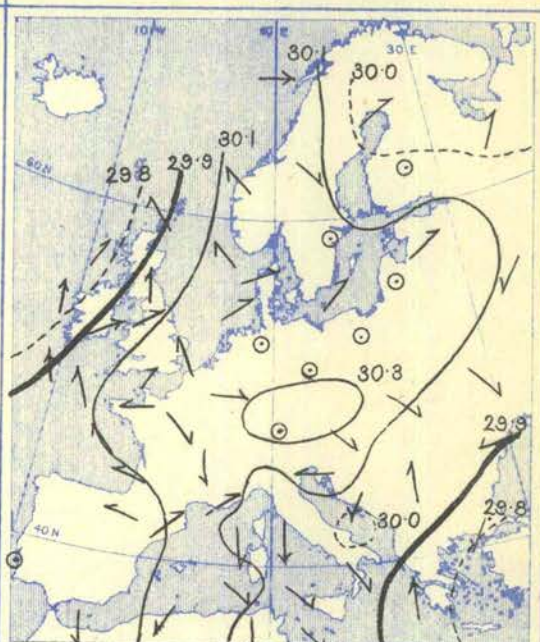
8 a.m.



Wind light and anticyclonic over the western, southern and central parts of the Continent; moderate from between South-West and South-East over the British Islands as a whole, and a separate cyclonic circulation found over the southern half of Norway. Freshening considerably from the Southward in the west of our Islands later.

Barometer highest, 30.41 ins. at Munich, and exceeding 30.1 ins. in a large elongated anticyclone extending from the Bay of Biscay across France, the southern half of England, Germany, and the Baltic to central Russia. Lowest, (1) below 29.9 ins., (a) over the extreme north-west of our Islands, and (b) over the southern half of Norway; (2) over Asia Minor and Turkey in Europe. Falling rather decidedly in the west of our Islands later, and the fall tending to spread eastwards.

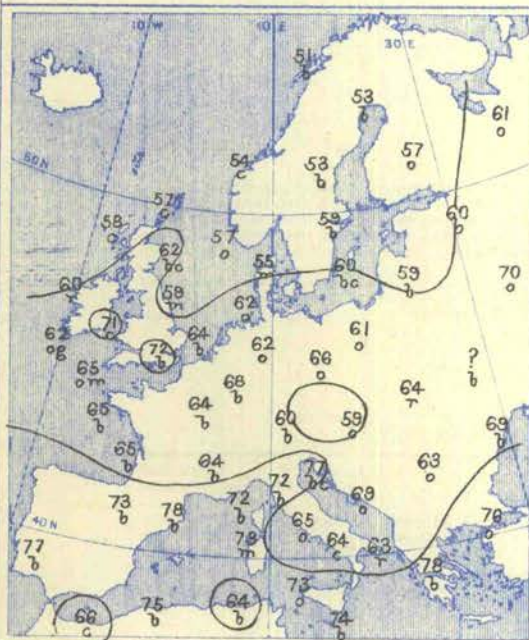
6 p.m.



Friday, 12th August.

Temperature and Weather.

8 a.m.

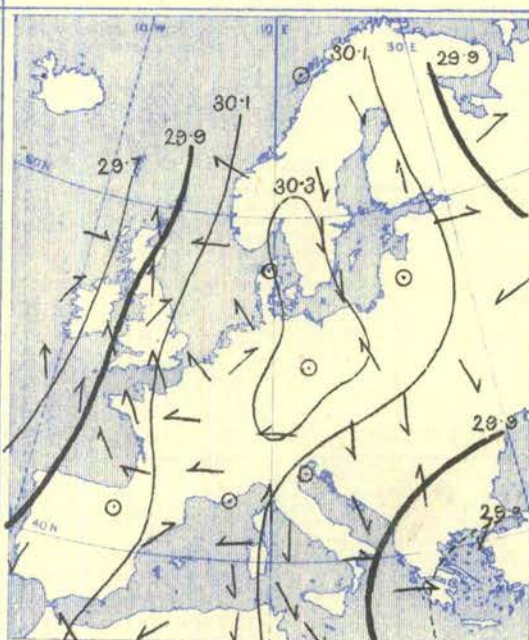


Weather in morning fine generally over the south-western, central, and northern parts of Continental Europe, as well as over the greater part of England and the east of Scotland; very cloudy over the western parts of our Islands, with rain in the south of Ireland. Rain later over Scotland, Ireland, the Irish Sea, and the south-west of England—very heavy at Donaghadee, and considerable at Stornoway.

Temperature rising steadily over France and the south-east of England, changing little and irregularly elsewhere. Morning readings not so uniform over the Mediterranean and Adriatic as of late—highest, 78° at Barcelona, 77° at Trieste, 75° at Algiers, 70° at Moscow, 61° at Archangel. Lowest, (1) 51° at Bodø, 54° at Christiansund, 58° in the north of Scotland; (2) 56° at Prague, 58° at Breslau, 59° at Buda Pesth, and 57° at Belfort.

Barometer and Wind.

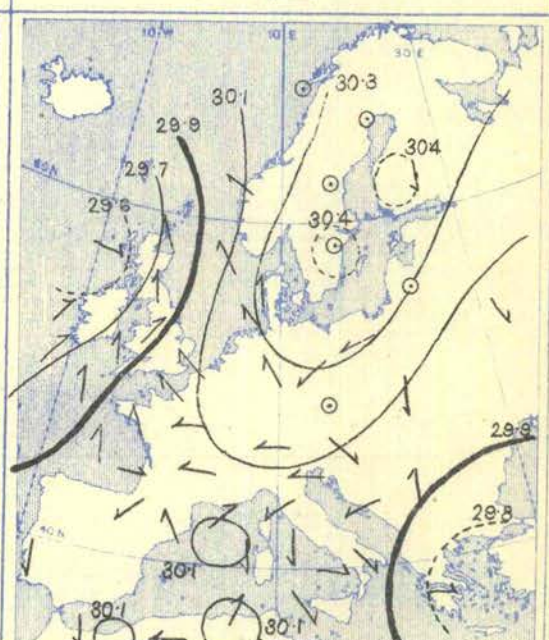
8 a.m.



Wind (1) light and anticyclonic over Continental Europe as a whole; (2) South-Easterly to Southerly over the United Kingdom, and blowing freshly on our western coasts, though moderate to light in the east. Freshening a little over Great Britain later, and veering to South-West in the south of Ireland; becoming lighter over the south-east of England and the Continent.

Barometer highest, 30.3 ins. and more to 30.1 ins. in an anticyclone covering Scandinavia, the Baltic, the whole of central Europe and the eastern and southern parts of France. Lowest, (1) 29.6 ins. off the west coast of Ireland; (2) below 29.7 ins. over the north of Russia. The low pressure area off our western coasts moving north-eastwards later. Low pressure area over Asia Minor and the Black Sea continuing.

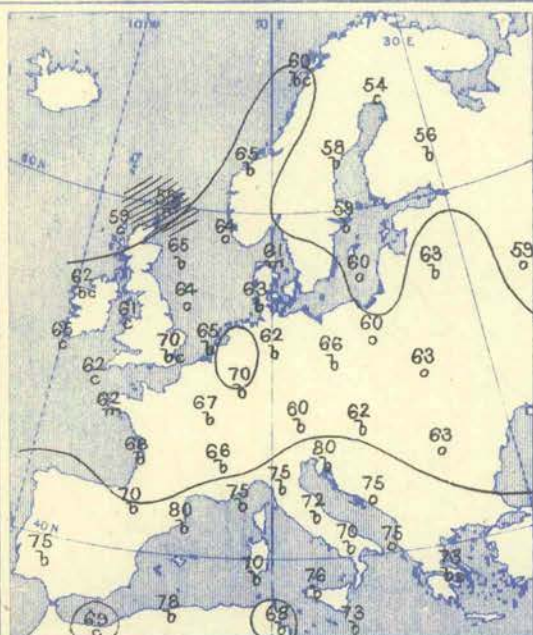
6 p.m.



Saturday, 13th August.

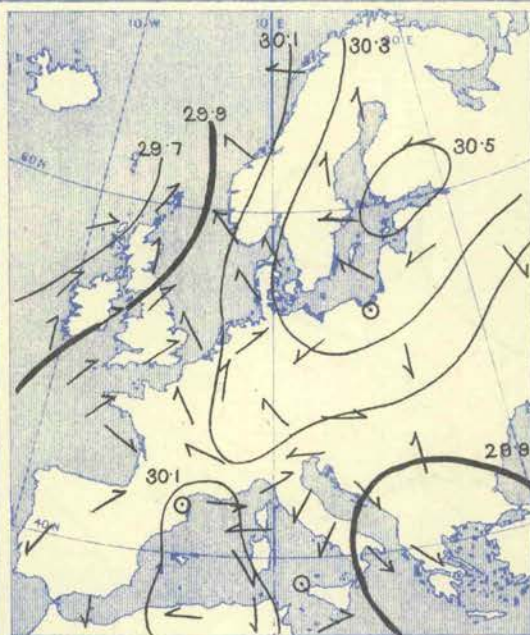
Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



8 p.m.



Weather in morning fine and bright over almost the whole of the Continent, the south-east of England, and over Scotland; dull over our Midland counties, with a wet mist at Loughborough. Rain later over Ireland, the extreme north-west of Scotland, and the north-west of Norway; weather fair, but very oppressive, over England; fine and very bright over France and Germany.

Temperature in morning highest, (1) 80° at Barcelona, above 70° over the Mediterranean generally; (2) 71° at the Helder, 70° in London and at Cambridge, and above 60° over Ireland, England, and the Continent generally. Lowest, (1) 55° at Sumburgh Head, 59° at Stornoway; (2) 54° at Uleaborg, and below 60° over Finland generally. Rising later to between 80° and 85° over the south-eastern parts of England, to 86° at Brussels, and 89° at Paris. Succeeding night very warm over England.

Wind was (1) light and anticyclonic over the northern half of Europe, and light and variable over the southern countries; South-Westerly to Southerly over the British Islands—very light over England, but moderate at our western and north-western stations. No decided change later.

Barometer in morning highest, 30.5 ins. over the central parts of Finland, and exceeding 30.1 ins. over the northern and central parts of Europe. Lowest, (1) below 29.7 ins. over the extreme north-western parts of our Islands; (2) below 29.9 ins. over the most south-eastern parts of Europe. Rising later at our north-western stations; falling slightly in various parts of England and France.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the first two days of this week the distribution of pressure, first over western, and then over central Europe, was of a very complex character, small depressions of slight intensity appearing over the south-west of England, the north-west of France, and the eastern shores of the North Sea, and these brought with them very heavy falls of rain, and a reduction of temperature over the southern and eastern parts of England, so great that in London the maximum reading recorded was only 54° on Sunday, and that on Monday 59°. These disturbances having passed off the barometer rose, first over our Islands, and then over the Continent, so that by the middle of the week anticyclonic conditions were spreading over the same regions in which the small depressions already noticed had previously prevailed, and by Thursday a well-marked high-pressure area was established over central Europe.

In the meantime depressions had begun to advance in a north-easterly direction towards Ireland, Scotland, and Norway, so that in those regions large quantities of rain fell day of day, while the more southern and eastern districts had finer weather. In these latter regions the thermometer rose steadily, with the result that on Thursday it rose to 77° over our north Midlands and at Oxford, to 80° at Cambridge and in London, and to 99° at Rochefort. On the remaining days of the week temperature continued to rise over England, and on Friday the maxima in the shade over the inland parts of England ranged from 81° to 85°.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 188.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	38.8	?	36	?	WESTBOURNE (Emsworth)	42.8*	- 3.7	42*	- 3
STRATHPEFFER SPA	38.1	+11.9	35	+12	WATERGATE (Emsworth)	33.1	?	32	?
EDINBURGH	40.5	+ 7.7	38	+ 8	BRIGHTON	39.7	- 5.3	30	- 8
MORPETH	43.3	?	41	?	EASTBOURNE	40.0	+ 3.2	48	+ 3
NEWCASTLE-ON-TYNE	35.1	?	33	?	VENTNOR HOSPITAL	39.0	?	38	?
OSWALDKIRK (Yorkshire)	24.2	- 8.2	23	- 6	SOUTHPORT	37.7	?	36	?
HOLLESLEY BAY	45.9	?	45	?	COLWYN BAY	38.2	?	37	?
SHEFFIELD	31.2	?	30	?	TENBY	34.3*	- 7.7	33*	- 8
WORKSOP	25.7	- 8.8	25	- 7	NEWQUAY	48.8	+ 3.7	48	+ 4
THURCASTON (Leicestershire)	28.1	- 8.6	27	- 8	TORQUAY	47.3*	+ 1.3	46*	+ 2
PLUMSTEAD COMMON	33.1	?	32	?	GUERNSEY	50.8*	- 2.6	50*	- 2
MARGATE									

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 33.]
Third Series.

WEEK ENDING SATURDAY, AUGUST 20TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 194.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	76	42	65.7	48.9	56.8	2 above	Day-deg. 104	Day-deg. +18	Day-deg. 0	Day-deg. 0	Day-deg. 1401	Day-deg. +154	Day-deg. 395	Day-deg. -228
	1. SCOTLAND, EAST	75	37	64.8	49.9	56.9	1 above	104	+ 2	0	0	1633	+ 96	427	-222
	2. ENGLAND, N.E.	80	45	67.3	53.8	60.1	2 above	127	+14	0	0	1750	+132	333	-216
	3. ENGLAND, EAST	84	50	73.7	57.1	64.9	5 above	160	+34	0	0	1970	+ 69	410	-207
	4. MIDLAND COUNTIES	82	48	74.4	55.4	64.3	5 above	156	+36	0	0	1986*	+ 76	404	-215
	5. ENGLAND SOUTH	87	52	76.9	59.9	67.9	7 above	181	+48	0	0	2180	+129	234	-243
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	74	45	67.3	53.2	59.8	3 above	125	+22	0	0	1765	+151	245	-217
	7. ENGLAND, N.W.	76	51	68.9	55.8	62.0	3 above	140	+25	0	0	1895	+158	215	-244
	8. ENGLAND, S.W.	81	50	72.3	57.9	64.7	5 above	159	+39	0	0	2111*	+175	205	-156
	9. IRELAND, NORTH	77	38	66.5	52.5	59.1	2 above	120	+14	0	0	1854	+138	227	-168
	10. IRELAND, SOUTH	73	43	68.0	54.9	61.1	2 above	134	+19	0	0	2183	+237	165	-134
	—CHANNEL ISLANDS	83	57	73.6	61.1	67.0	6 above	175	+41	0	0	2470	+307	55	- 93

DISTRICTS. (See p. 194.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	10ths of in. 1	10ths of in. 8 less	162	+13	Ins. 34.2	+ 6.2	43	+18	41	+17	897	+87	29	+ 3
	1. SCOTLAND, EAST	4	3	4 less	124	+ 2	15.3	- 3.3	25	- 7	24	- 6	984	+49	32	+ 2
	2. ENGLAND, N.E.	3	2	4 less	112	- 1	12.6	- 2.8	26	- 4	25	- 3	913*	+ 4	31	+ 1
	3. ENGLAND, EAST	1	2	3 less	102	- 8	12.5	- 2.8	56	+11	56	+12	1048	-68	34	- 2
	4. MIDLAND COUNTIES	2	4	2 less	102	- 6	12.0	- 4.6	37	+ 2	37	+ 4	999*	+25	33	0
	5. ENGLAND, SOUTH	1	2	4 less	93	-10	11.4	- 5.0	66	+23	66	+24	1054	-50	36	- 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	4	6 less	141	+14	24.0	- 3.9	28	- 6	27	- 6	1030	+ 82	35	+ 3
	7. ENGLAND, N.W.	2	2	6 less	118	+ 1	20.4	+ 1.0	30	- 4	30	- 4	1082	+115	36	+ 3
	8. ENGLAND, S.W.	2	8†	10 (average)	107	-11	17.9*	- 4.1	44	+ 1	45	+ 2	1227	+ 37	41	+ 2
	9. IRELAND, NORTH	4	4	5 less	150	+12	21.5	- 0.4	38	+10	37	+10	956	+ 41	31	+ 1
	10. IRELAND, SOUTH	4	10	2 more	117	- 8	21.4	- 1.7	44	+12	44	+12	1064	+ 33	35	+ 1
	— CHANNEL ISLANDS	2	1	4 less	122	- 1	14.1	- 4.0	66	+20	67	+21	1394	+ 60	47	+ 2

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period was very warm and fine generally. Thunderstorms, however, occurred from time to time in different parts of the Kingdom, those experienced over southern Wales and the south-west of England on Thursday being of unusual severity and duration, and in some places were reported to have been accompanied by a slight earthquake.

Temperature was above the mean, the excess ranging from 1° to 2° in Scotland and Ireland to 5° in England E., England S.W., and the Midland Counties, 6° in the Channel Islands, and 7° in England S. The highest of the maxima were registered during the earlier days of the week, when they ranged from 87° in England S. (in London on Monday), and from 84° in England E. to between 76° and 74° in Scotland, and to 73° in Ireland S. The lowest of the minima, which occurred during the latter half of the period, ranged from 37° in Scotland E., and 38° in Ireland N. to 52° in England S., and to 57° in the Channel Islands. Over the south and south-east of England the nights were unusually warm.

Rainfall was less than the mean in most districts, but just equalled it in England S.W., and exceeded it in Ireland S. The fall accompanying the thunderstorms of Thursday appears to have

been extremely heavy locally, but the greatest amounts at any of our stations were 1.43 ins. at Plymouth, 1.08 ins. at Llandovery, and 1.05 ins. at Prawle Point.

Bright Sunshine was in excess of the mean in most districts, particularly in the Channel Islands, England S. and Scotland N., but there was a deficit over the northern parts of England and the greater part of Scotland. The percentage of the possible duration ranged from 67 in the Channel Islands, 66 in England S., and 56° in England E. to 27 in Scotland W., 25 in England N.E., and 24 in Scotland E.

Barometer and Wind.—At the commencement of the week a shallow depression was skirting our extreme north-western coasts, and the winds were mostly light from the South-Westward. As this disturbance passed off the distribution became mainly anticyclonic, and the winds variable or from a point between North and East. This anticyclonic condition continued throughout the week in the north, but on Thursday a depression approached our south-western districts from the Bay of Biscay, causing the thunderstorms in that region and a considerable increase in the force of the Easterly and North-Easterly winds.

II.—DATA from which the SUMMARY on page 193 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42° F.	Below 42° F.	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	66	46	60.9	47.6	53.9	+ 1.2	83	0	0	- 0.76	*	*	*	*
	Stornoway	66	46	64.1	49.4	56.3	+ 2.3	100	0	0	- 0.76	57.0	+30.5	54	+29
	Wick	70	45	63.9	47.3	55.1	+ 0.5	92	0	0	- 0.62	*	*	*	*
	Lairg	76	42	70.6	47.4	58.3	+ 3.4	114	0	0	- 0.37	*	*	*	*
	Glencarron	69	44	66.4	49.2	57.3	+ 2.7	107	0	0	- 1.41	*	*	*	*
	Fort Augustus	70	42	67.2	49.7	57.9	+ 1.4	111	0	0	- 0.58	30.0	+13.2	29	+13
	Fort William	70	47	66.7	51.5	58.6	+ 1.8	116	0	4	- 1.26	32.6	+13.0	31	+13
1. SCOTLAND, E.	Nairn	75	44	67.3	49.6	57.9	+ 1.4	111	0	2	- 0.50	*	*	*	*
	Aberdeen	71	47	63.3	50.6	56.6	+ 0.3	102	0	3	- 0.48	32.9	- 1.1	32	0
	Braemar	67	37	63.5	45.6	54.0	+ 0.6	84	0	4	- 0.67	24.2†	- 1.6†	23†	- 1†
	Ochertyre	72	43	67.4	50.6	58.5	+ 1.5	116	0	5	- 0.64	*	*	*	*
	Leith	75	48	63.9	52.6	57.9	- 0.3	111	0	2	- 0.27	*	*	*	*
	Marchmont	71	45	63.4	50.1	56.4	+ 0.5	101	0	5	- 0.04	20.8	-13.3	20	-13
2. ENGLAND, N.E.	Alnwick Castle	75	45	65.2	50.5	57.4	+ 1.0	108	0	6	- 0.39	*	*	*	*
	Durham	80	49	69.4	52.1	60.2	+ 2.3	127	0	2	- 0.42	22.7	-10.4	22	-10
	Shields	71	50	64.0	54.1	58.8	+ 1.1	118	0	2	- 0.49	*	*	*	*
	Scarborough	79	49	72.3	54.1	62.7	+ 3.9	145	0	0	- 0.58	33.5	0.0	33	0
	Spurn Head	70	56	65.4	58.0	61.5	+ 2.2	137	0	3	- 0.53	*	*	*	*
3. ENGLAND, E.	Hillington	82	52	73.1	55.6	63.8	+ 4.1	153	0	3	- 0.70	42.0	+ 2.2	42	+ 3
	Yarmouth	72	58	67.7	59.1	63.1	+ 3.1	148	0	0	- 0.52	*	*	*	*
	Geldeston	80	53	73.1	56.1	64.1	+ 4.1	155	0	0	- 0.47	57.4	+14.4	57	+15
	Cambridge	84	50	78.1	57.6	67.2	+ 6.6	176	0	1	- 0.18	54.5	+13.4	55	+15
	Rothamsted	80	51	76.5	57.0	66.2	+ 6.7	169	0	2	- 0.17	57.3	+14.6	57	+15
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	79	49	74.9	55.4	64.6	+ 5.3	158	0	1	- 0.03	0	*	*	*
	Loughborough	82	53	74.4	56.3	64.8	+ 4.4	160	0	4	- 0.82	0	*	*	*
	Stamford (Duddington)	81	49	75.9	56.1	65.4	+ 4.9	164	0	2	- 1.08	0	*	*	*
	Cheadle	76	51	71.6	55.0	62.8	+ 5.5	146	0	1	- 0.12	0	*	*	*
	Shirley (near Solihull)	78	50	73.9	55.4	64.1	+ 4.4	155	0	4	- 0.56	0	*	*	*
	Churchstoke	78	48	71.1	51.0	60.5	+ 3.1	130	0	3	- 0.14	34.9	- 2.1	35	- 1
	Hereford	80	52	75.2	54.8	64.4	+ 4.6	157	0	2	- 0.11	0	*	*	*
	Cirencester	79	53	74.9	56.6	65.2	+ 6.9	162	0	2	- 0.56	46.3	+ 5.8	46	+ 7
	Oxford	82	52	77.9	57.7	67.2	+ 6.8	176	0	0	- 0.52	51.0	+ 9.4	51	+10
	London	87	57	82.6	60.4	70.8	+ 8.9	202	0	1	- 0.06	53.4†	+15.4†	53†	+16†
5. ENGLAND, S.	North Foreland	76	59	69.4	60.4	64.6	+ 4.0	158	0	0	- 0.06	0	*	*	*
	Cranley	84	52	79.4	58.2	68.1	+ 6.6	183	0	2	- 0.06	0	*	*	*
	Dungeness	76	56	72.1	60.1	65.7	+ 4.0	166	0	1	- 0.44	0	*	*	*
	Hastings (St. Leonards)	83	60	77.6	61.5	69.1	+ 7.9	190	0	1	- 0.02	79.1	+32.3	79	+34
	Southampton	84	57	81.8	60.2	70.4	+ 8.9	199	0	2	- 0.17	67.2	+21.2	67	+22
	Hurst Castle	81	59	76.0	61.7	68.4	+ 6.7	185	0	1	- 0.13	0	*	*	*
	Shaftesbury	79	54	76.4	57.0	65.1	+ 0.5	169	0	1	- 0.06	0	*	*	*
	Laudale (Loch Sunart)	69	47	67.2	50.7	58.5	+ 1.8	116	0	5	- 0.81	0	*	*	*
6. SCOTLAND, W.	Glasgow	69	48	64.7	54.4	59.2	+ 2.7	120	0	4	- 0.55	19.9	- 9.1	19	- 9
	Ardrossan	69	50	66.7	54.3	60.1	+ 2.4	127	0	3	- 0.11	0	*	*	*
	Glenlee	72	45	68.9	51.7	59.8	+ 3.3	125	0	3	- 0.40	0	*	*	*
	Gilcrux (Cumberland)	74	52	68.6	53.1	60.4	+ 3.9	129	0	4	- 0.57	29.4	?	29	?
	Douglas (Isle of Man)	72	52	67.4	55.0	60.8	+ 4.1	132	0	2	- 0.68	33.8	- 3.6	33	- 3
7. ENGLAND, N.W.	Stonyhurst	73	52	68.7	55.5	61.7	+ 4.1	138	0	2	- 0.06	30.8	- 1.4	30	- 1
	Blackpool	75	51	71.6	54.6	62.6	+ 3.4	144	0	2	- 0.12	29.6	- 5.9	29	- 4
	Manchester (Prestwich)	76	51	71.7	55.5	63.1	+ 4.7	148	0	3	- 0.19	28.1	?	28	?
	Liverpool Obsy. (Bidston)	71	52	68.6	57.1	62.5	+ 2.8	144	0	3	- 0.25	0	*	*	*
	Llandudno	72	53	67.9	55.9	61.5	+ 1.6	137	0	2	- 0.26	28.6	- 5.6	28	- 6
	Holyhead	70	55	64.9	56.3	60.3	+ 1.4	128	0	2	- 0.35	0	*	*	*
	Llandoverly	81	53	77.4	54.6	65.3	+ 6.4	163	0	3	- 1.17	0	*	*	*
8. ENGLAND, S.W.	Pembroke	72	57	66.7	58.4	62.3	+ 3.4	142	0	2	- 0.93	37.1	- 5.1	37	- 5
	Clifton	78	55	74.5	58.4	66.0	+ 6.1	168	0	2	- 0.64	0	*	*	*
	Arlington (N. Devon)	76	50	72.0	55.6	63.3	+ 5.0	149	0	2	- 0.71	0	*	*	*
	Cullompton	78	55	75.2	57.8	66.0	+ 6.2	168	0	1	- 0.47	44.9	+ 5.1	45	+ 6
	Falmouth	74	57	69.8	60.0	64.6	+ 4.6	158	0	2	- 0.23	44.6	- 1.4	45	- 1
	Plymouth	78	53	72.5	58.5	65.1	+ 4.1	162	0	1	- 1.43	51.0	+ 8.9	52	+11
	Prawle Point	79	56	70.3	59.7	64.7	+ 5.2	159	0	1	- 1.05	0	*	*	*
9. IRELAND N.	Malin Head	65	52	62.9	55.4	58.9	+ 1.6	118	0	4	- 0.27	0	*	*	*
	Londonderry	77	48	71.2	52.5	61.3	+ 3.7	135	0	4	- 0.79	0	*	*	*
	Edenfel (Omagh)	70	45	66.6	50.9	58.3	+ 2.1	114	0	4	- 0.90	0	*	*	*
	Belmullet	69	45	65.4	54.0	59.4	+ 1.4	122	0	4	- 0.70	0	*	*	*
	Markree Castle	72	38	68.8	47.1	57.3	+ 0.7	107	0	6	- 0.27	36.7	+ 9.5	36	+10
	Armagh	71	49	66.8	52.9	59.4	+ 2.2	122	0	3	- 0.08	39.0	+13.0	38	+13
	Donaghadee	69	52	64.0	54.7	59.1	+ 1.9	120	0	4	- 0.23	0	*	*	*
	Edgeworthstown	73	52	68.5	56.6	62.2	+ 3.1	141	0	4	- 0.23	44.0	+ 9.1	44	+10
10 IRELAND S.	Dublin	72	48	69.4	52.7	60.6	+ 2.7	130	0	5	- 1.31	43.0	+13.4	43	+14
	Kilkenny	72	49	68.9	53.3	60.7	+ 2.1	131	0	5	- 0.94	0	*	*	*
	Roche's Point	69	55	66.6	57.6	61.8	+ 2.4	139	0	5	- 1.38	0	*	*	*
	Valencia	73	48	67.4	57.1	61.9	+ 2.9	139	0	5	- 1.04	45.3	+12.5	45	+13
	Killarney	71	43	67.8	53.4	60.2	+ 1.4	127	0	4	- 1.40	0	*	*	*
	Foynes	71	46	67.4	53.9	60.3	+ 2.0	128	0	3	- 0.94	0	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	71	59	68.4	60.1	64.0	+ 3.8	154	0	2	- 0.09	49.6	?	50	?
	Jersey	83	57	78.7	62.0	69.9	+ 7.3	195	0	2	- 0.15	71.9	+17.7	73	+19

Stations marked $\mathfrak{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathfrak{S}$ with the Scottish Meteorological Society.

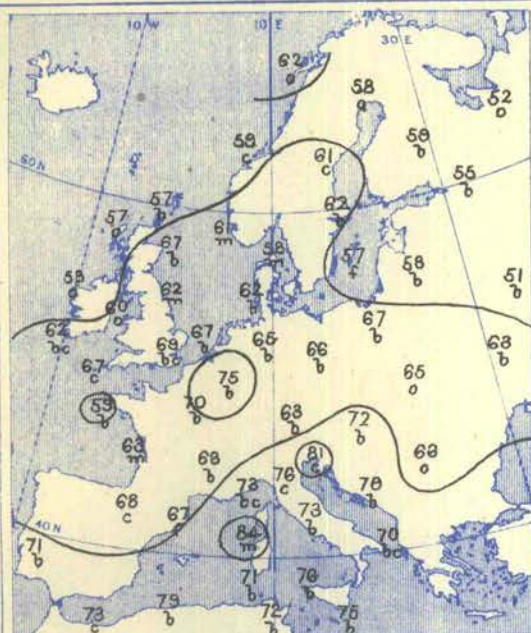
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 14th August.

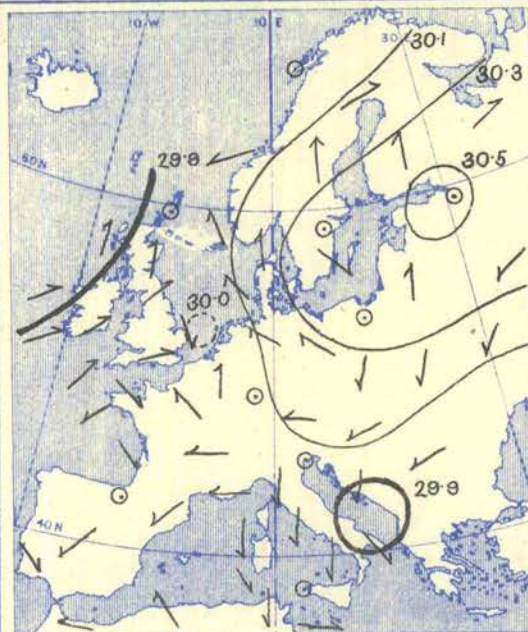
Temperature and Weather.

8 a.m.

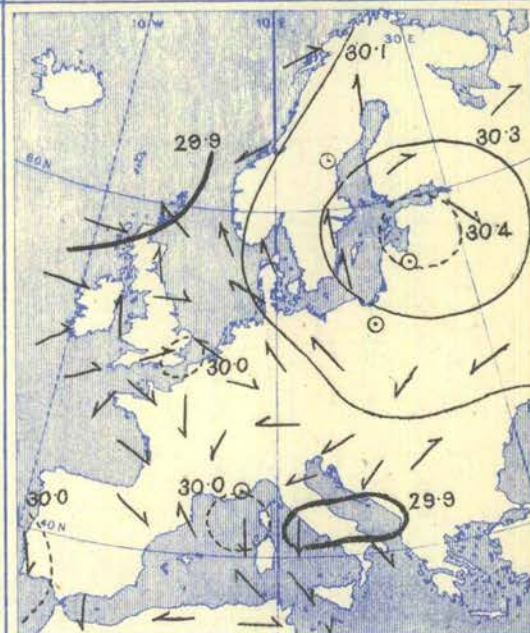


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine generally both over Continental Europe and our Islands, although dull at some of the extreme north-western and western stations, and in some parts of the south-western countries. Very slight rain later in the extreme north and west, and at Vienna; continuing fine and bright in most other places, but thick fog banks at times over some of our southern districts and the Channel.

Temperature highest, 82° at Barcelona, 81° at Trieste, and exceeding 70° at the Mediterranean and Adriatic stations generally; ranging from 70° to 60° over south-eastern, central, and western Europe, including England, Ireland, and the east of Scotland, as well as many parts of Sweden and Norway. Lowest, 57° at Sumburgh Head and Stornoway, 58° at Belmullet, 59° at Christiansund. Rising later to between 65° and 75° in Ireland and Scotland, to 81° at Oxford, and 85° in London; to 82° at Berlin, 92° at Paris, 93° at Lyons, 88° at Cagliari and Palermo.

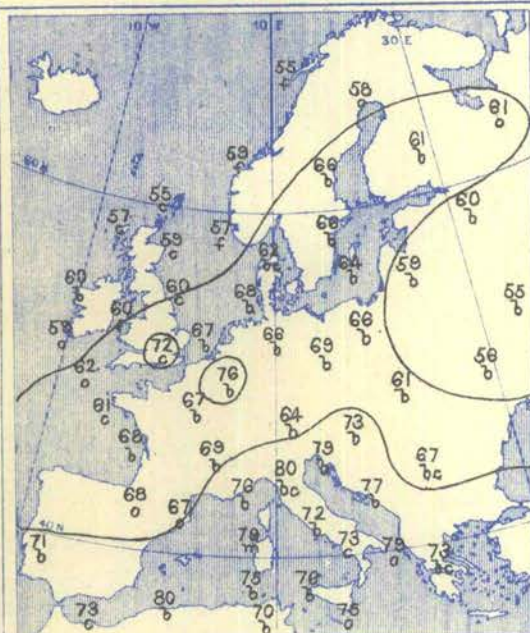
Wind light to moderate in force and anticyclonic in direction over northern and central Europe, light and very variable over France and England; cyclonic, South-West to South-East, over Ireland and the west of Scotland, and moderate to fresh in force; Southerly and rather fresh over Scandinavia. Very slight cyclonic circulation over the south-east of England later.

Barometer in morning highest, 30.5 ins. and more over the Gulf of Finland, and exceeding 30.1 ins. over all the northern countries; exceeding 30.0 ins. over France and England. Lowest, 29.9 ins. over the most north-western parts of our Islands. Two small and extremely shallow depressions found—one off our east coast, the other near Havre. Hardly any change later, but the French depression moving north-eastwards to the south-east of England.

Monday, 15th August.

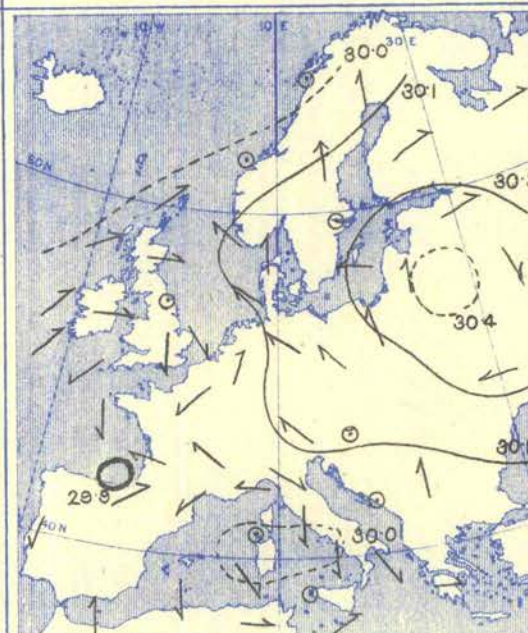
Temperature and Weather.

8 a.m.

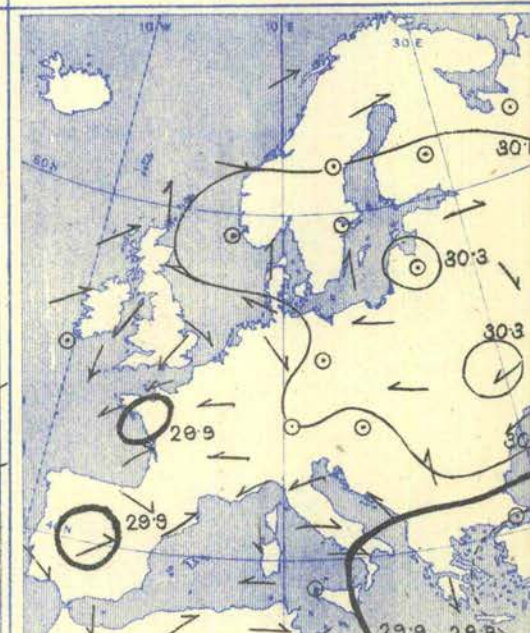


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still fair as a whole, but foggy or hazy in several parts of the United Kingdom, and very gloomy on our south-west coasts; very fine and bright over the Continent. Slight rain later at several of our western stations, and a larger quantity over the north-east and east of England where passing thunderstorms occurred at night or early on Tuesday morning.

Temperature in morning highest, 70° to 80° over southern Europe and the Mediterranean, and above 60° all over central and south-western Europe and the greater part of England; 76° at Brussels, 72° in London, 70° at Hurst Castle and Dungeness. Lowest, (1) 55° at Bodø and Sumburgh Head, 57° at Stornoway, Wick and Leith; (2) 52° to 59° over central Russia. Rising later to 87° in London, 88° at Berlin, 91° at Brussels and Paris, 93° at Lyons, 90° at Palermo, 95° at Madrid, and nearly 100° at Laghouat.

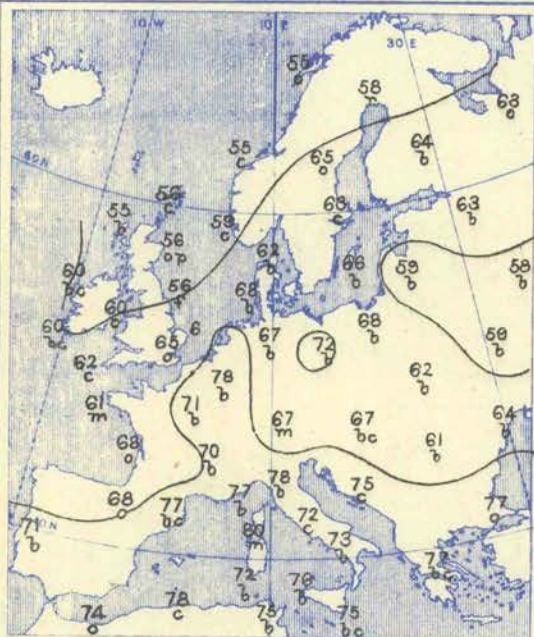
Wind still light and anticyclonic (East to South-East and South) over Russia and central Europe; extremely light and variable over our Islands and the Mediterranean, but inclined to be North-Easterly over the southern parts of England and the north of France. Last named current freshening a little later, and South-Westerly to South-Easterly breezes settling in over the western and central parts of France.

Barometer in morning highest, 30.4 ins. to 30.1 ins. in a large anticyclone lying over Russia, Scandinavia and central Europe. Lowest, below 30.0 ins. (1) over Finnmark and the extreme north of our Islands; (2) over France, and about 29.9 ins. in a shallow disturbance over the south-eastern parts of the Bay of Biscay. More than one small shallow depression over Spain and France later and moving north-eastwards.

Tuesday, 16th August.

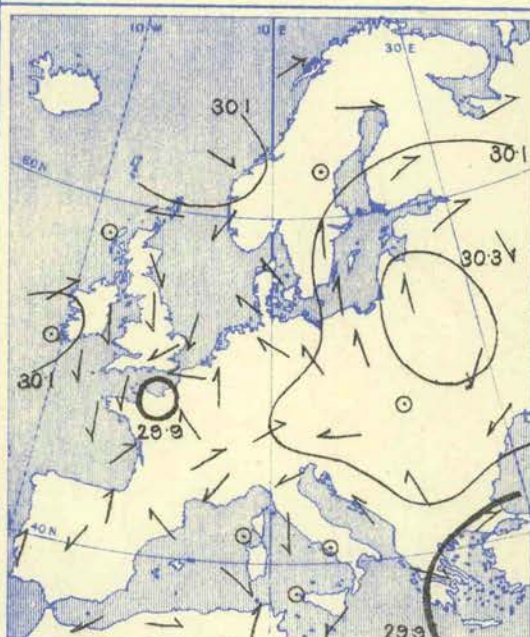
Temperature and Weather.

8 a.m.

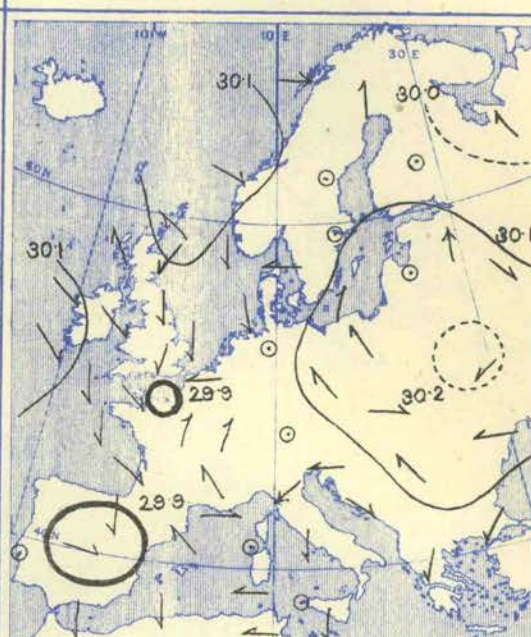


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in most places, but rather unsettled over the south-east of England, mist in many places, and slightly rainy and thundery on the north-eastern coasts of Great Britain; very heavy rain falling later in some parts of Scandinavia, and smaller quantities in Scotland and the north-east of England, but conditions continuing fine at all the more western and southern stations.

Temperature fallen somewhat in many parts of England. Morning readings, highest 79° to 70° over the Mediterranean and the extreme south-east of Europe, and 78° (locally) at Brussels, 72° at Berlin, 71° at Swinemünde, Wiesbaden, and Paris, 68° at Hurst Castle, 66° at Oxford. Lowest, (1) 55° in the north-west of Norway, at Wick, and Stornoway, 56° at Aberdeen and Shields; (2) 57° to 59° over central Russia. Rising later to 75° at York and Oxford, 83° in London, 86° at Paris, 90° at Brussels and Berlin, and 94° at Lyons.

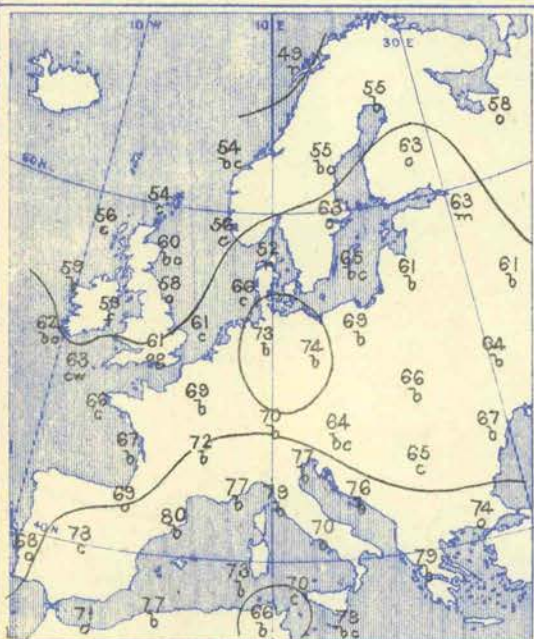
Wind (1) light and very variable over Ireland, Scotland, and the west of Norway, and light and anticyclonic over the western and central parts of Russia; (2), light to moderate from the North-Eastward over the south of England, but from the Southward over France, and from the South-Eastward over the eastern shores of the North Sea. Becoming more Northerly over Ireland later, and freshening slightly.

Barometer highest, (1) 30.3 ins. to 30.1 ins. in an anticyclone covering the greater part of Austria and eastern Germany; (2), and exceeding 30.1 ins. in other high pressure systems lying off the west of Ireland, and the west of Norway. Lowest, below 29.9 ins. over the north of France, and rather less low all over France, the Netherlands, and the south of England. The low pressure area referred to moving eastwards later, and barometer rising over Ireland and Scotland.

Wednesday, 17th August.

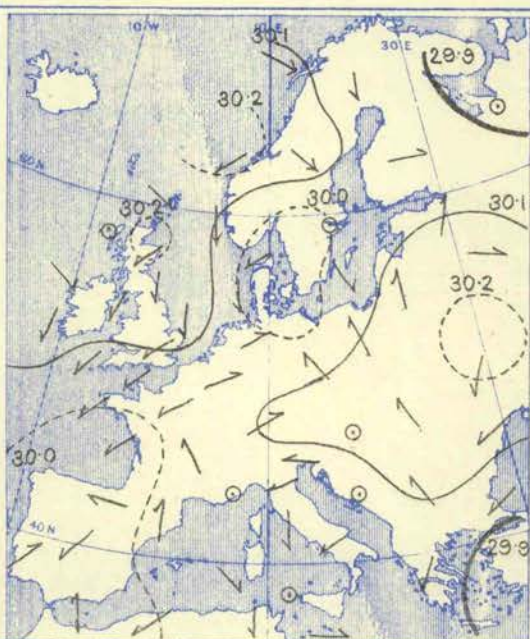
Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the greater part of the Continent, and in many of the western portions of our Islands, dull and misty however over England; rainy in many parts of Scandinavia, Denmark and Holland, with thunder at Fano. Considerable rain, thunder and lightning later over our western districts, and heavy rain over the southern parts of Sweden and Norway.

Temperature fallen considerably over Belgium and to a smaller extent over England. Morning readings ranging from 70° to 80° on the Mediterranean and Adriatic shores, and from 60° to 70° over almost the whole of the Continent and the extreme south of England. Lowest, 49° at Bodø, 54° at Christiansund and Sumburgh Head, and below 60° over the greater part of England and Ireland. Rising later to 74° at Loughborough, 78° in London, and 79° at Jersey, and to 87° at Paris, 90° at Belfort, 91° at Berlin, and 96° at Lyons.

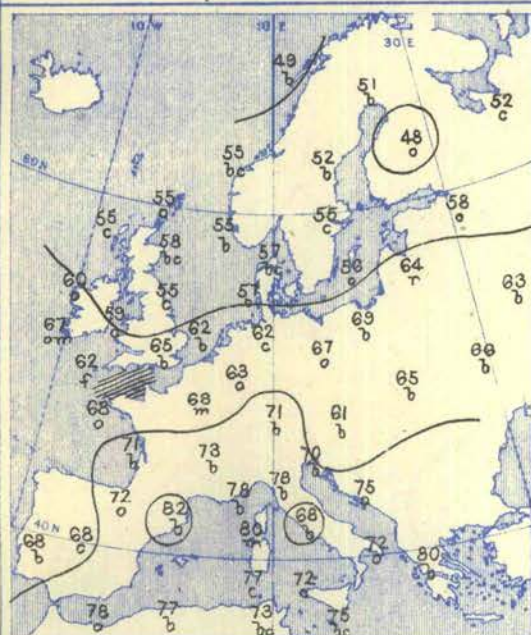
Wind (1) very light and mainly anticyclonic over the western and northern parts of the United Kingdom, but Northerly to North-Easterly over the Channel and south and east of England; Northerly and fresh over the North Sea, and North-Westerly and strong over the north of Scandinavia; (2) very light and anticyclonic from South-East over central Europe, from West at Moscow, and from North-East at Kharkov and Kiev. Freshening somewhat from the Eastward over the English Channel at night.

Barometer highest, 30.2 ins. and more to 30.1 ins. (1) in an anticyclone over Russia and central Europe, and (2) in another over the British Islands and Norway. Lowest, 30.0 ins. and less to 29.9 ins. in four very shallow depressions—one over south-eastern Europe, and another over south-western Europe, and third over Denmark and neighbouring countries, and a fourth over the north of Russia. Falling somewhat over the Bay of Biscay and our south coasts later; rising over Scotland and the North Sea.

Thursday, 18th August.

Temperature and Weather.

8 a.m.

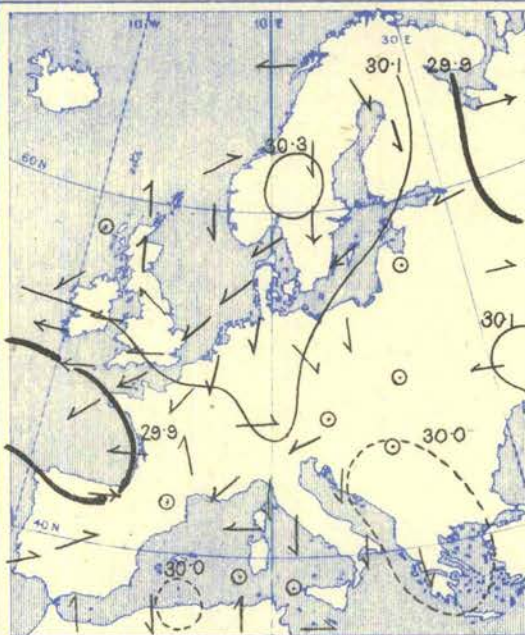


Weather in morning fine and bright over Scandinavia and the northern and eastern parts of our Islands, as well as over south-eastern and southern Europe and the Mediterranean; dull and unsettled over the south-western parts of the United Kingdom, with wet fog and mist at several stations; thunder and lightning at Roche's Point. Thunderstorms and heavy rain later over Ireland, the south-west of England and South Wales, smaller quantities over Brittany. A fresh fall setting in over the north-west of Scandinavia.

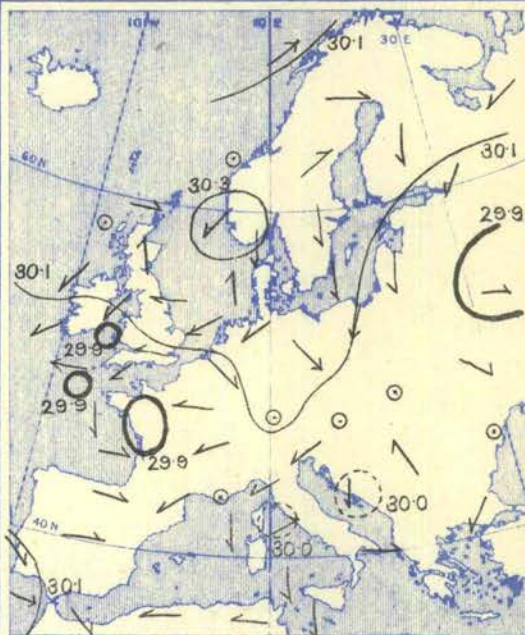
Temperature changing irregularly. Morning readings still ranging from 70° to 80° over the Mediterranean, Adriatic, and several parts of southern Europe, and 73° at Wiesbaden. Lowest, 49° at Kuopio, and ranging from 49° to 53° over northern Europe as a whole; 55° to 58° over Scotland and the north of England. Changing irregularly later, but reaching 73° at Fanö, Loughborough and Valencia, and touching 82° at Berlin, 91° at Paris, and 96° at Lyons.

Barometer and Wind.

8 a.m.



6 p.m.



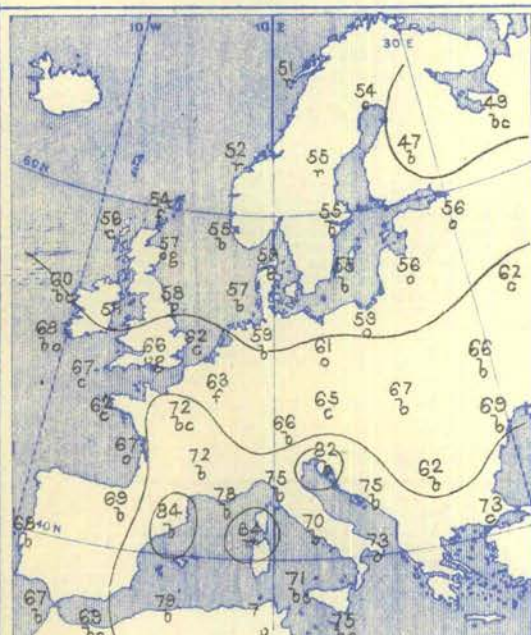
Wind (1) light and anticyclonic over the greater part of Scandinavia, the North Sea and the northern parts of Great Britain; (2) cyclonic from North-East, North and West over Finland, and blowing hard at Helsingfors; (3) cyclonic from South-West and West over Spain, and from South-East and East over Brittany and the south-western parts of our Islands; (4) extremely light and variable over south-eastern and southern Europe. Freshening considerably from the East and North-East over the south of England later, and becoming rather variable in direction at times.

Barometer highest, 30.3 ins. and more to 30.2 ins. in a large anticyclone covering Scandinavia, the North Sea, and the northern and eastern parts of Great Britain. Lowest, below 29.9 ins. over the north of Russia, and also in a rather complex depression over the Bay of Biscay and the adjacent parts of the Atlantic. Small systems, secondary to this last named disturbance, being developed over the western and south-western parts of our Islands later.

Friday, 19th August.

Temperature and Weather.

8 a.m.

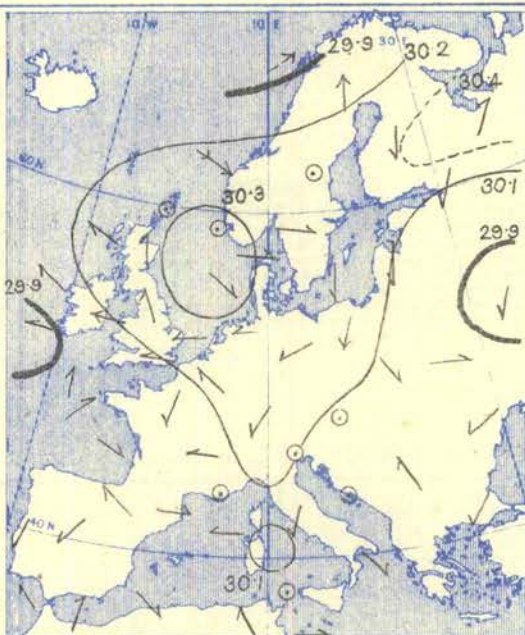


Weather in morning very fine and bright over the greater part of the Continent and the Mediterranean, but dull and changeable in several parts of our Islands, showery at Holyhead and Shields, and at Bodø also. Rain falling later over Ireland and the northern parts of England and the Netherlands, thunder and lightning occurring in many parts of England.

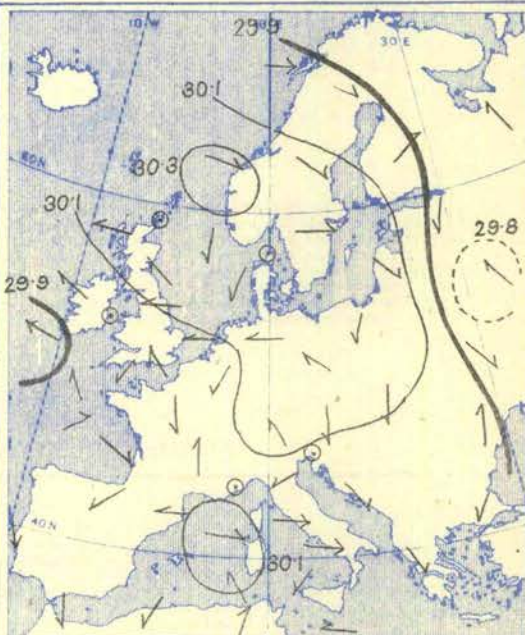
Temperature highest, 84° at Barcelona and Sanguinaires, 82° at Trieste, and exceeding 70° over southern Europe generally; 72° at Paris, 71° at Wiesbaden. Lowest, 49° at Archangel, 51° at Bodø, 55° at Wick, Skudesnaes and Stockholm, and below 60° over all the northern parts of the United Kingdom. Rising later to 74° at York, 75° at Jersey, 82° at Oxford and Cape Gris Nez, 84° in London, 89° at Paris, 97° at Lyons, and still higher over Algeria.

Barometer and Wind.

8 a.m.



6 p.m.



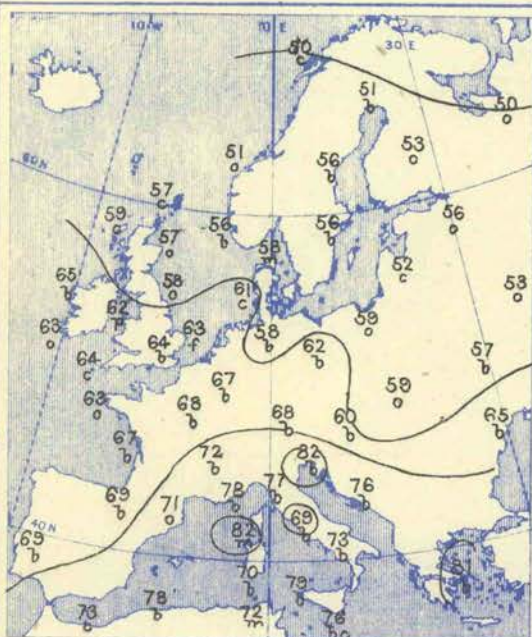
Wind very light and variable over south-eastern and southern Europe, moderate and variable over the English Channel, Easterly to South-Easterly over England and Ireland, Southerly at Aberdeen, and strong to a gale from between West and South over the northern parts of Scandinavia; North-Easterly moderate over Germany. The South-Easterly wind subsiding later over our western districts.

Barometer highest, 30.3 ins. and more over the south-west of Norway and the North Sea, and exceeding 30.1 ins. in an anticyclone covering that region, the northern and eastern parts of our Islands, central Europe and the Baltic. Lowest, 29.9 ins. and less in three depressions—one off the south-west coast of Ireland, another lying partially over Lapland, and a third over central Russia. The Irish depression becoming deeper towards evening, and the barometer unsteady at our south-eastern stations also.

Saturday, 20th August.

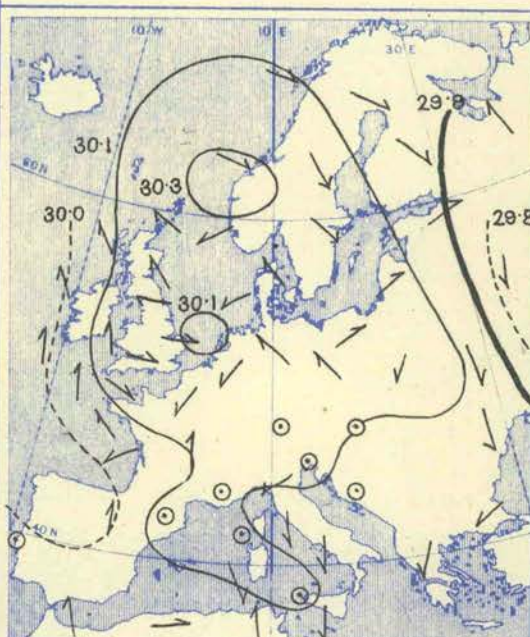
Temperature and Weather.

8 a.m.

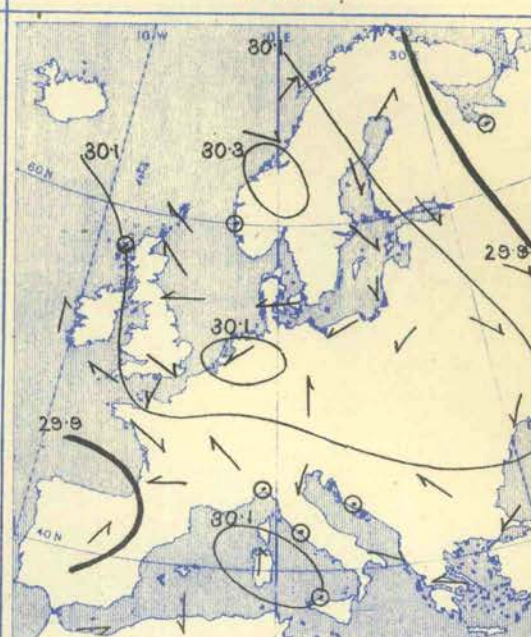


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over Scandinavia, central, southern, and south-western Europe, as well as the greater part of our Islands, but hazy at several of the southern and western stations. Slight rain later at several isolated stations in the northern and western parts of our Islands, and a thunderstorm at Jersey; continuing fine over the Continent and the east and south-east of England.

Temperature in morning highest, 82° at Trieste, 81° at Athens, 79° at Cape Sicié, 78° at Algiers and Nice, and above 70° over the southern parts of the Continent generally; 68° to 60° over the southern half of England. Lowest (1) 50° to 53° in the extreme north of Europe, 55° at Karlstad, 57° at Aberdeen, 58° at Shields; (2) 55° to 50° over central Europe. Rising later to 74° at Loughborough, 78° at Oxford, 82° at London, 86° at Paris, 97° at Rochefort and Lyons, and night remaining very warm over England. Scarcely exceeding 60° over the north of Scotland all day, and not touching 80° at the German stations.

Wind (1) exceedingly light and anticyclonic over Norway, Denmark, the Baltic, central and southern Europe; (2) Southerly to South-Easterly, light to moderate on our western coasts (3) North-Westerly, moderate to strong over Finland and the greater part of Sweden. No decided change later.

Barometer highest, 30.3 ins. and more over the southern half of Norway and exceeding 30.1 ins. except over central Russia on the one hand, and the western parts of Ireland and adjacent parts of the Atlantic on the other, where it was lower. Lowest, 29.76 ins. at Moscow. Falling somewhat over the Bay of Biscay later. Very little change elsewhere.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\Rightarrow$ = a heavy gale; $\Rightarrow$ = a fresh to strong breeze; $\Rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: — = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the first part of this week a well-marked anticyclone moved slowly from north to south from the northern to the southern parts of Russia; while a "col" extended thence in a westerly direction across the North Sea and our Islands to the Atlantic. Occasionally another high pressure area appeared off the western parts of our Islands, and as the European system moved southwards became the dominant system over the United Kingdom and the North Sea. On Thursday a well-marked depression appeared over the Bay of Biscay, and moving north-westwards caused very thundery and rainy weather over the south-western parts of our Islands—some of the disturbances, but hardly any rain fell, and the lighting and thunder were not severe. At the end of the week, very warm, close weather was still prevalent over France and England, with an occasional appearance that the warm weather would break up, but notwithstanding this no decided change was reported.

The daily maxima of temperature were as high as 90° to 97° over the Southern half of France, and 87° to rather below 80° in London.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 194.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	58.8	?	53	?	WESTBOURNE (Emsworth)	77.4*	+31.4	77*	+32
STRATHPEFFER SPA	39.4	+13.5	38	+14	WATERGATE (Emsworth)	62.3	?	62	?
EDINBURGH	22.0	-11.8	21	-11	BRIGHTON	67.3	+19.3	67	+19
MORPETH	23.0	?	22	?	EASTBOURNE	79.1	+34.1	79	+35
NEWCASTLE-ON-TYNE	18.7	?	18	?	VENTNOR HOSPITAL	66.3	?	66	?
OSWALDKIRK (Yorkshire)	31.1	+0.1	30	+1	SOUTHPORT	27.2	?	27	?
HOLLESLEY BAY	69.9	?	70	?	COLWYN BAY	35.4	?	35	?
SHEFFIELD	24.5	?	24	?	TENBY	36.9*	-5.1	37*	-5
WORKSOP	31.2	-1.1	31	0	NEWQUAY	47.0	+1.7	47	+2
THURCASTON (Leicestershire)	33.2	-3.0	33	-2	TORQUAY	49.1*	+3.3	50*	+5
PLUMSTEAD COMMON	52.7	?	53	?	GUERNSEY	76.0*	+22.4	77*	+24
MARGATE	51.7	+9.7	52	+11					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 34.]
Third Series.

WEEK ENDING SATURDAY, AUGUST 27TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a “Day-degree” signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of “Accumulated Temperature” will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 100.)		Temperature of the Air.													
		Observed during the Week.					Accumulated.								
		Highest.	Lowest.	Averages of			Above or below the Mean for the Week.	For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	79	44	64.1	50.8	57.0	2 above	Day-deg. 105	Day-deg. +20	Day-deg. 0	Day-deg. 0	Day-deg. 1506	Day-deg. +174	Day-deg. 395	Day-deg. -228
	1. SCOTLAND, EAST	82	32	67.3	50.0	58.2	3 above	113	+13	0	0	1746	+109	427	-222
	2. ENGLAND, N.E.	81	41	68.7	52.6	60.2	3 above	127	+17	0	0	1877	+149	333	-216
	3. ENGLAND, EAST	87	44	73.1	54.0	62.9	3 above	146	+25	0	0	2116	+94	410	-207
	4. MIDLAND COUNTIES	84	40	71.7	53.2	61.9	3 above	139	+21	0	0	2125	+97	404	-215
	5. ENGLAND SOUTH	89	45	71.4	57.5	64.1	3 above	155	+24	0	0	2335	+153	234	-243
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	75	40	65.7	52.4	58.6	2 above	116	+15	0	0	1882*	+167	245	-217
	7. ENGLAND, N.W.	80	43	67.7	54.5	60.7	2 above	131	+18	0	0	2026	+176	215	-244
	8. ENGLAND, S.W.	82	40	69.1	56.0	62.2	3 above	141	+23	0	0	2252	+198	205	-156
	9. IRELAND, NORTH	78	42	65.8	54.0	59.5	3 above	123	+18	0	0	1977	+156	227	-168
	10. IRELAND, SOUTH	73	43	66.3	55.7	60.7	2 above	131	+17	0	0	2314	+254	165	-134
	—CHANNEL ISLANDS	81	52	70.2	60.2	64.9	4 above	160	+27	0	0	2630	+334	55	-93

DISTRICTS. (See p. 100.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.		Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	11	1 more	167	+14	35.3	+ 6.4	26	+ 2	24	+ 3	923	+90	29	+ 3	
	1. SCOTLAND, EAST	3	3	4 less	127	+ 1	15.6	- 3.8	38	+ 6	38	+ 7	1022	+55	32	+ 2	
	2. ENGLAND, N.E.	3	4	1 less	115	- 2	13.0	- 2.9	34	+ 4	34	+ 4	947	+ 8	31	+ 1	
	3. ENGLAND, EAST	2	1	4 less	104	-10	12.6	- 3.2	42	+ 2	44	+ 3	1090	-66	34	- 2	
	4. MIDLAND COUNTIES	4	6	0 (average)	106	- 6	12.6	- 4.6	35	- 1	36	- 1	1034	+23	34	+ 1	
	5. ENGLAND, SOUTH	2	1	4 less	95	-12	11.5	- 5.4	37	- 6	38	- 5	1091	-56	36	- 2	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	11	1 more	145	+13	25.1	- 3.7	28	- 5	28	- 3	1058	+ 77	35	+ 3	
	7. ENGLAND, N.W.	6	14	7 more	124	+ 3	21.8	+ 1.7	35	+ 1	36	+ 2	1117	+117	36	+ 3	
	8. ENGLAND, S.W.	5	7	1 less	112	-10	18.6	- 4.2	36	- 7	37	- 6	1263	+29	41	+ 1	
	9. IRELAND, NORTH	5	6	2 less	155	+12	22.1	- 0.6	25	- 3	25	- 3	981	+ 38	31	+ 1	
	10. IRELAND, SOUTH	4	12	3 more	121	- 9	22.6	- 1.4	28	- 4	29	- 4	1092	+ 28	35	+ 1	
	— CHANNEL ISLANDS	5	4	2 less	127	- 1	14.5	- 4.1	44	- 6	45	- 4	1438	+ 55	47	+ 1	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the “differences from the mean” for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period was far less settled than that experienced during the previous week, but it remained generally fair and dry in the east and south, although thunderstorms occurred in many parts of those districts on Sunday, and some sharp showers on Saturday. In the north and west the conditions were unsettled and rainy, except during the middle of the week.

Temperature was again above the mean in all districts, the excess varying from 2° or 3° generally to 4° in the Channel Islands. The highest of the maxima were registered on the 22nd, when they ranged from 89° in England S. (London), and 87° in England E., to 79° in Scotland N., 75° in Scotland W., and 73° in Ireland S. The lowest of the minima, which occurred during the latter half of the week, ranged from 32° in Scotland E. (at Braemar on the 25th) to 40° in the Midland counties, Scotland W., and England S.W., to 45° in England S., and to 52° in the Channel Islands.

Rainfall varied greatly in different parts of the Kingdom; it generally exceeded the mean value in the west and north-west, but showed a deficiency in the east and south. Over southern and eastern England the fall was extremely slight, while in the Midland counties it just equalled the mean.

Bright Sunshine did not differ much from the normal; it was generally in excess over the

northern half of the Kingdom, but rather deficient in the south. The percentage of the possible duration ranged from 45% in the Channel Islands and 44% in England E. to 25% in Ireland N., and to 24% in Scotland N.

Barometer and Wind.—The distribution of pressure over our Islands during this week changed frequently. On Sunday a shallow depression spread over our south-western districts from the Bay of Biscay, and caused the thunderstorms noted above. This was succeeded by a larger disturbance which skirted our north-western and northern coasts, and whose secondaries passed directly over the country. As this system moved away north-eastwards, the barometer rose decidedly, and during Wednesday and Thursday an anticyclone passed eastwards over the kingdom. By Friday, however, pressure was giving way briskly in the west and north-west, and during the remainder of the week the centre of a rather deep depression was moving north-eastwards off the north of Scotland. Very variable winds were reported generally, but towards the end of the week the prevailing South-Westerly winds were rather strong, and reached the force of a slight gale at many of the western stations.

II.—DATA from which the SUMMARY on page 199 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall			Bright Sunshine		
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.
				Of Highest each day.	Of Lowest each day.	For whole of each day.								
								Above 42° F.	Below 42° F.	Inches.	Inches.			
0. SCOTLAND, N.	Sumburgh Head	60	45	58.3	49.0	53.4	+ 0.9	80	0	6	0.96	+ 0.17	*	*
	Stornoway	67	49	61.0	51.4	55.9	+ 2.2	97	0	6	0.74	- 0.12	18.1	- 8.3
	Wick	67	48	63.9	51.1	57.1	+ 2.9	106	0	4	0.58	- 0.04	*	*
	Lairg	79	48	69.2	50.6	59.3	+ 4.6	121	0	4	0.74	+ 0.15	*	*
	Glencarron	78	46	64.8	50.2	57.1	+ 2.7	106	0	5	1.94	+ 0.41	*	*
	Fort Augustus	78	44	67.2	50.9	58.6	+ 2.3	116	0	3	0.66	- 0.11	27.0	+ 10.0
1. SCOTLAND, E.	Fort William	74	47	64.3	52.1	57.8	+ 1.3	111	0	5	1.85	+ 0.47	20.8	+ 1.2
	Nairn	82	41	70.4	50.6	59.9	+ 3.8	125	0	3	0.43	- 0.16	*	*
	Aberdeen	67	42	64.1	51.4	57.4	+ 1.7	108	0	4	0.22	- 0.45	33.5	- 0.5
	Braemar	72	32	62.4	46.8	54.1	+ 1.4	85	0	3	0.28	- 0.62	40.2†	+ 14.5†
	Ochertyre	73	37	67.4	50.1	58.2	+ 1.7	113	0	3	0.44	- 0.38	*	*
	Leith	78	44	69.7	53.0	60.9	+ 3.2	132	0	3	0.18	- 0.39	*	*
2. ENGLAND, N.E.	Marchmont	77	42	60.9	48.3	58.5	+ 3.0	116	0	2	0.22	- 0.53	40.3	+ 6.1
	Alnwick Castle	76	41	67.7	51.8	59.3	+ 3.3	121	0	2	0.11	- 0.54	*	*
	Durham	79	41	70.2	50.7	59.9	+ 2.4	125	0	4	0.14	- 0.43	38.8	+ 6.3
	Shields	77	45	67.3	52.3	59.4	+ 2.1	122	0	3	0.56	- 0.04	*	*
	Scarborough													
	York	81	44	69.9	52.3	60.6	+ 2.2	130	0	3	0.92	+ 0.36	35.1	+ 3.1
3. ENGLAND, E.	Spurn Head	76	52	68.4	55.9	61.8	+ 2.9	139	0	3	0.37	- 0.01	*	*
	Hillington	87	44	74.6	52.2	62.7	+ 3.3	145	0	2	0.08	- 0.50	38.2	- 0.5
	Yarmouth	75	52	68.7	57.4	62.7	+ 3.0	145	0	2	0.13	- 0.37	*	*
	Geldeston	82	44	73.0	51.9	61.8	+ 2.3	139	0	1	0.05	- 0.40	42.1	+ 0.2
	Cambridge	87	48	76.1	54.1	64.4	+ 4.3	157	0	2	0.05	- 0.45	44.8	+ 4.5
	Rothamsted	84	49	72.9	54.2	63.0	+ 4.0	147	0	2	0.05	- 0.49	44.8	+ 3.3
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	83	44	73.0	52.6	62.2	+ 3.5	141	0	3	0.70	+ 0.21	*	*
	Loughborough	84	46	72.4	53.1	62.2	+ 2.3	141	0	3	0.57	+ 0.04	*	*
	Stamford (Duddington)	83	48	72.9	54.3	63.0	+ 2.9	147	0	3	0.15	- 0.35	*	*
	Cheadle	78	46	67.7	52.5	59.6	+ 2.9	123	0	3	1.21	+ 0.41	*	*
	Shirley (near Solihull)	80	47	70.3	53.4	61.3	+ 2.0	135	0	5	0.71	?	*	*
	Churchstoke	80	40	71.3	50.6	60.3	+ 3.2	128	0	5	1.30	+ 0.70	37.4	+ 0.4
	Hereford	83	47	73.3	53.0	62.5	+ 3.1	144	0	4	0.26	- 0.28	*	*
	Cirencester	81	48	71.8	54.3	62.4	+ 4.7	143	0	5	0.27	- 0.39	33.6	- 6.2
	Oxford	83	50	73.0	55.1	63.5	+ 3.3	151	0	2	0.14	- 0.37	37.3	- 3.6
5. ENGLAND, S.	London	89	49	76.6	57.9	66.7	+ 5.2	173	0	2	0.11	- 0.39	38.3†	+ 1.1†
	North Foreland	79	56	70.7	59.0	64.5	+ 4.6	158	0	1	0.03	?	*	*
	Cranley	84	45	73.9	54.3	63.5	+ 2.6	161	0	1	0.14	?	*	*
	Dungeness	74	55	69.3	59.6	64.2	+ 2.9	155	0	2	0.08	- 0.40	*	*
	Hastings (St. Leonards)	77	53	70.5	58.1	63.9	+ 3.1	153	0	4	0.14	- 0.36	41.4	- 4.0
	Southampton	84	50	72.1	56.0	63.6	+ 2.4	151	0	2	0.10	- 0.47	36.2	- 9.6
	Hurst Castle	78	54	69.7	59.9	64.5	+ 3.1	158	0	2	0.07	- 0.45	*	*
	Shaftesbury	80	51	68.7	55.5	61.7	+ 2.2	138	0	3	0.21	- 0.43	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	75	49	66.1	53.6	59.5	+ 2.9	123	0	5	1.89	+ 0.77	*	*
	Glasgow	74	44	65.6	52.2	58.5	+ 2.2	116	0	3	0.68	- 0.22	28.1	- 0.9
	Ardrossan	72	46	65.4	54.0	59.4	+ 1.9	122	0	3	0.47	- 0.41	*	*
	Glenlee	74	40	65.5	50.1	57.3	+ 1.3	107	0	4	1.03	+ 0.01	*	*
	Gilerux (Cumberland)	76	45	67.3	52.7	59.5	+ 3.4	123	0	6	1.77	?	28.1	?
	Douglas (Isle of Man)	70	45	64.0	51.8	57.5	+ 1.0	109	0	3	0.73	- 0.15	28.6	- 8.2
7. ENGLAND, N.W.	Stonyhurst	76	46	66.2	53.6	59.5	+ 2.2	123	0	6	1.73	+ 0.55	35.9	+ 3.9
	Blackpool	79	43	69.1	53.6	60.9	+ 2.2	132	0	6	1.41	+ 0.69	25.5	- 8.0
	Manchester (Prestwich)	80	45	68.6	53.1	60.4	+ 2.5	129	0	5	1.26	+ 0.46	28.4	?
	Liverpool Obsy. (Bidston)	77	52	69.0	56.1	62.2	+ 2.9	141	0	5	1.30	+ 0.70	*	*
	Llandudno	80	46	69.3	55.3	62.1	+ 2.4	141	0	6	1.42	+ 0.84	42.7	+ 8.8
	Holyhead	68	49	63.4	55.0	59.0	- 0.8	119	0	5	1.51	+ 0.81	*	*
8. ENGLAND, S.W.	Llandovery	80	40	70.6	52.4	61.0	+ 2.5	133	0	5	1.13	+ 0.11	*	*
	Pembroke	72	50	64.4	57.4	60.7	+ 2.0	131	0	5	1.63	+ 1.32	28.2	- 14.0
	Clifton	82	52	69.9	57.1	63.1	+ 3.7	148	0	5	0.54	- 0.18	*	*
	Arlington (N. Devon)	78	49	69.3	55.0	61.7	+ 3.8	138	0	4	0.65	- 0.47	*	*
	Cullompton	82	51	73.9	55.5	64.2	+ 4.8	155	0	2	0.39	- 0.21	40.7	+ 0.6
	Falmouth	73	53	68.2	57.5	62.5	+ 2.8	144	0	5	0.30	- 0.52	36.9	- 8.9
9. IRELAND N.	Plymouth	75	48	69.5	55.7	62.2	+ 1.5	141	0	5	0.30	- 0.31	37.5	+ 4.5
	Prawle Point	71	51	67.0	57.3	61.9	+ 2.7	139	0	5	0.22	- 0.28	*	*
	Malin Head	72	52	64.4	56.0	60.0	+ 2.7	126	0	4	0.46	?	*	*
	Londonderry	78	51	69.1	54.8	61.5	+ 4.3	137	0	6	0.59	- 0.24	*	*
	Edenfel (Omagh)	72	48	64.9	53.1	58.7	+ 2.8	117	0	5	0.74	- 0.06	*	*
	Belmullet	69	52	62.9	54.4	58.4	+ 0.6	115	0	7	1.32	+ 0.33	*	*
10 IRELAND S.	Markree Castle	72	42	65.7	53.2	59.1	+ 2.9	120	0	5	0.45	- 0.45	17.3	- 10.5
	Armagh	72	52	66.5	59.5	59.6	+ 2.9	123	0	4	0.30	- 0.40	32.9	+ 6.9
	Donaghadee	66	53	64.3	54.7	59.2	+ 1.3	120	0	4	0.33	- 0.38	*	*
	Edgeworthstown	73	44	68.4	52.1	59.8	+ 3.4	125	0	4	0.75	- 0.05	*	*
	Dublin	73	50	66.9	54.8	60.5	+ 1.8	130	0	4	1.24	+ 0.64	30.0	- 4.9
	Parsonstown	72	48	67.1	54.0	60.2	+ 2.8	127	0	5	1.68	+ 0.94	26.8	- 2.2
CHANNEL ISLANDS	Kilkenny	70	43	65.9	54.3	59.8	+ 1.4	125	0	5	1.25	+ 0.42	*	*
	Roche's Point	70	53	65.4	57.0	61.0	+ 2.0	133	0	4	0.95	+ 0.05	*	*
	Valencia	70	55	65.4	57.6	61.3	+ 2.5	135	0	4	1.13	- 0.01	27.4	- 5.7
	Killarney	72	53	66.3	56.2	61.0	+ 2.4	133	0	4	0.47	?	*	*
	Foynes	72	52	66.7	55.7	61.1	+ 3.1	134	0	4	1.44	?	*	*
	Scilly (St. Mary's)	72	58	68.7	60.3	64.3	+ 4.3	156	0	5	0.16	- 0.39	33.7	?
	Jersey	81	52	71.7	60.0	65.5	+ 3.0	165	0	5	0.60	+ 0.10	48.5	- 5.0

Stations marked *all* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

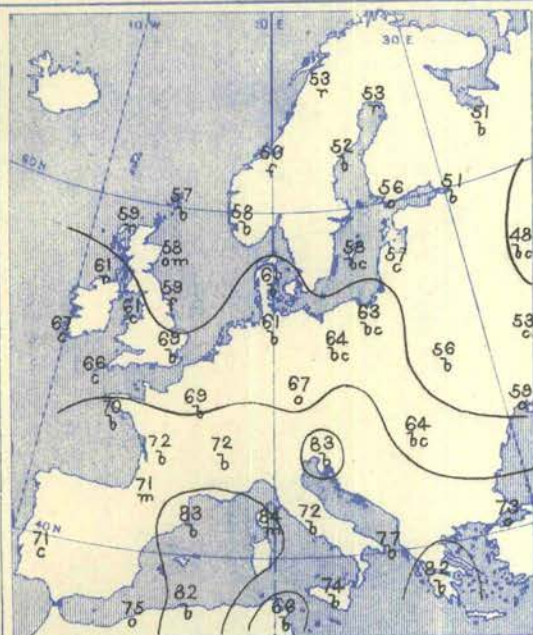
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 21st August.

Temperature and Weather.

8 a.m.

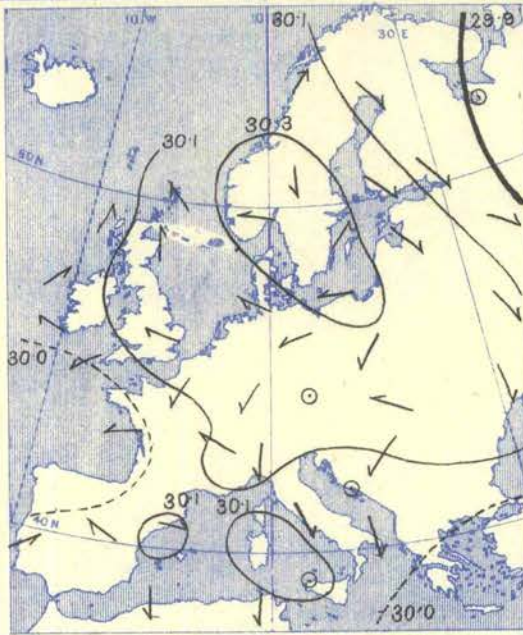


Weather in morning fair or fine over the United Kingdom as a whole, but foggy or misty on many parts of our east and south-east coasts, and rainy at Stornoway and Malin Head. Fine over the greater part of the Continent, but rainy in the north of Scandinavia. Rain falling later at most of our own western and northern stations, and thunderstorms occurring in many parts of Ireland, England and France.

Temperature changed rather irregularly. Morning readings highest, 84° at Sanguinaire, 83° at Barcelona, and 82° at Patras and Algiers; above 70° over southern Europe generally, and as high as 71° even at Hurst Castle. Lowest, 48° at Moscow and 51° at Archangel, St. Petersburg and Helsingfors; lowest in our Islands, 57° at Sumburgh Head and Donaghadee. Rising during day to between 80° and 83° over the inland parts of the south and east of England; exceeding 90° over France, Spain and northern Italy, and reaching 102° at Bordeaux and Limoges.

Barometer and Wind.

8 a.m.



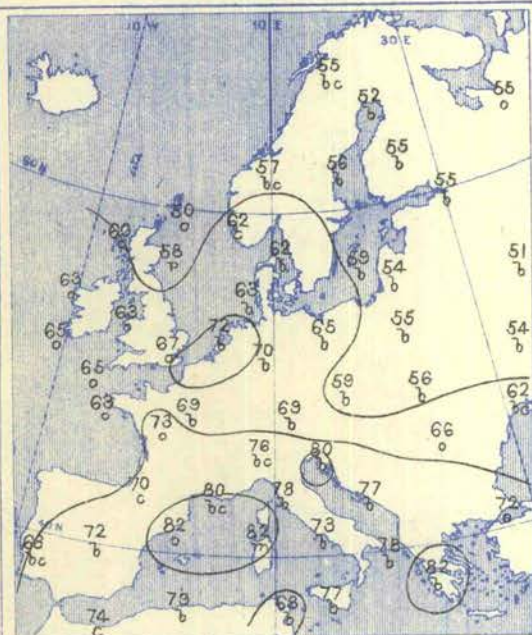
Wind light from the Eastward over England, France and the south of Ireland, as well as in Germany, Denmark and the south of Norway. South-Easterly in Scotland; Southerly in the north of Ireland. Light from the North-Westward in Russia, and from the Northward in Italy; calm or variable in Austria, and also over the Spanish Peninsula. Shifting later to the Southward or South-Westward over the Bay of Biscay, and to the Westward in the west of Ireland; no important change occurring elsewhere.

Barometer highest, 30.3 ins. and upwards in an anticyclone lying over the Baltic and the southern half of Scandinavia. Lowest, 29.9 ins. and less in a large depression over the northern parts of Russia; 30.0 ins. and less in another disturbance over the Bay of Biscay and the west of France, as well as in a shallow area over Greece and Asia Minor. Depression over Bay of Biscay subsequently spreading northwards and eastwards, and barometer falling in most parts of western Europe.

Monday, 22nd August.

Temperature and Weather.

8 a.m.

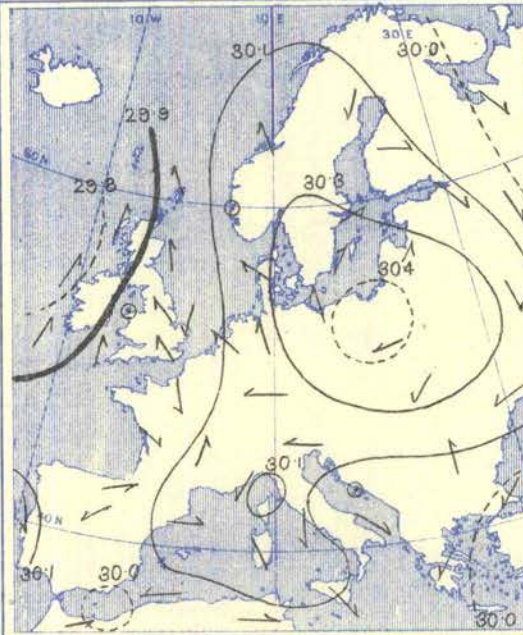


Weather in morning cloudy in most parts of the United Kingdom, with fog or mist in many places and thunderstorms at Dungeness and Yarmouth; fine, however, over the north of Ireland and the south of Scotland. Fine at most of the Continental stations, but cloudy or dull in the west of France. Thunderstorms occurring later in many parts of the United Kingdom, with rain in most districts. Rain falling also at some of the French stations and thunderstorms reported at Biarritz and La Coubre.

Temperature risen in most parts of our Islands and also in Scandinavia, Denmark and the Netherlands, fallen or changed irregularly elsewhere. Morning readings highest, 82° at Sanguinaire, Barcelona, Trieste, and Patras, and 80° at Toulon; above 75° in many parts of southern Europe, and above 70° over France, the Netherlands, and the extreme south-east of England. Lowest, (1) 50° at Kharkov, 51° at Moscow, and 54° at Memel and Kiev; (2) 55° at Sumburgh Head, and 58° at Wick and Aberdeen. Rising during day to 80° and upwards in many parts of Great Britain, and to 89° in London; exceeding 90° in many parts of France Belgium and southern Europe, and reaching 99° at Florence and 97° at Limoges.

Barometer and Wind.

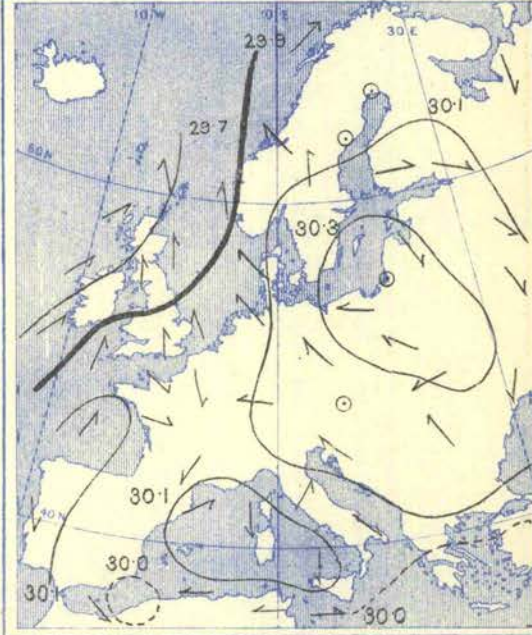
8 a.m.



Wind light from the Southward in the west and north of our Islands, but Westerly or North-Westerly over the Channel and the Bay of Biscay, and Easterly or South-Easterly over the Netherlands and the eastern and central parts of England. Varying Southerly (South-East to South-West) over Scandinavia and Denmark, but North-Westerly in Russia. Variable over the Spanish Peninsula and the south of France, as well as in Austria, but Northerly or North-Westerly in Italy. Subsequently veering to the Southward or South-Westward over the eastern and central parts of England; no important change occurring elsewhere.

Barometer highest, 30.4 ins. at Neufahrwasser, 30.1 ins. and upwards in an anticyclone embracing nearly the whole of the Continent. Lowest, 29.8 ins. and less in a depression lying off our own extreme north-west coasts; small and very shallow secondary system lying over the south of England. Both disturbances moving north-eastwards during day; barometer falling in most parts of western Europe.

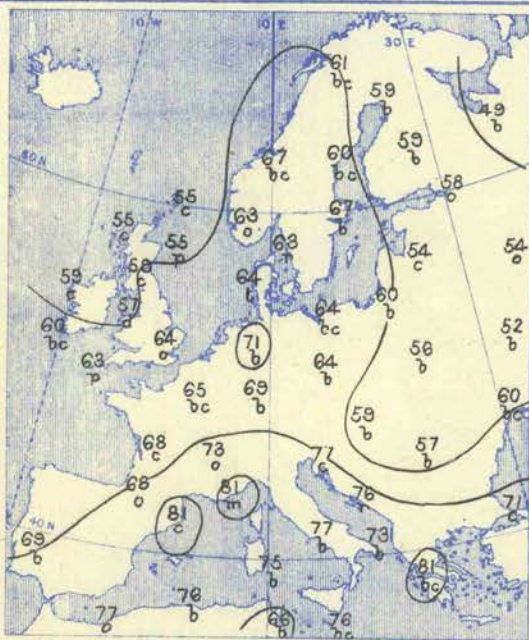
6 p.m.



Tuesday, 23rd August.

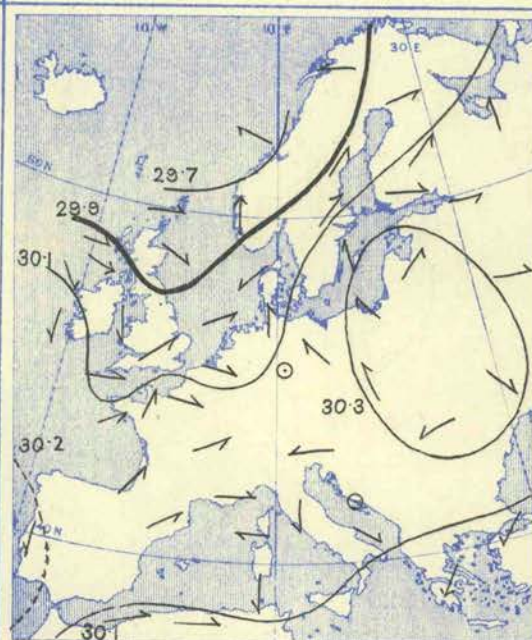
Temperature and Weather.

8 a.m.

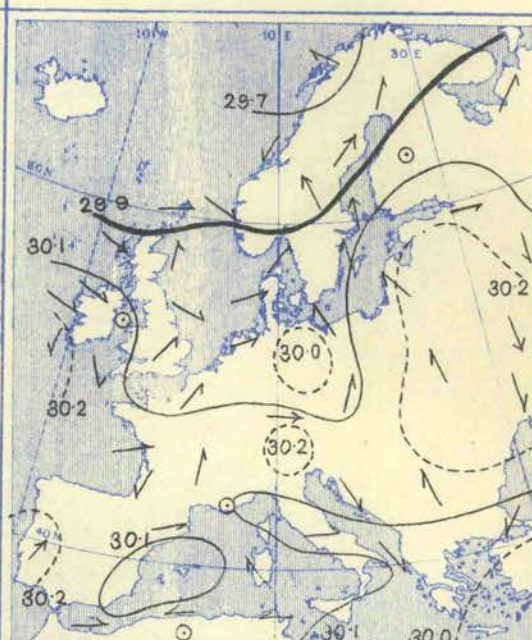


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the eastern and central parts of England, and also over the greater part of the Continent, but dull in Denmark and the south of Norway, with rain at Skagen and thunder at Faen; thunderstorm reported also at Limoges. Cloudy in the western and northern parts of Great Britain, with rain in several places; fine at most of the Irish stations. Slight rain falling later in some parts of England and Ireland, and also in the north of Scotland; larger quantities reported at several of the Scandinavian stations, with thunderstorms at Faen, Cuxhaven, Clermont and Lyons.

Temperature fallen in most parts of western and southern Europe. Morning readings highest, 82° at Sanguinaire, 81° at Toulon, Barcelona and Patras, and 80° at Nice, above 70° over southern Europe generally, and above 65° at some of the English and Scandinavian stations. Lowest, (1) 49° at Archangel, 51° at Kharkov, and 52° at Kiev; (2) 54° at Nairn, and 55° at Sumburgh Head, Stornoway and Aberdeen. Rising during day to 75° and upwards in the east and south-east of England; exceeding 85° in many parts of central and southern Europe, and reaching 91° at Toulon, Perpignan and Rome, and 98° at Cagliari.

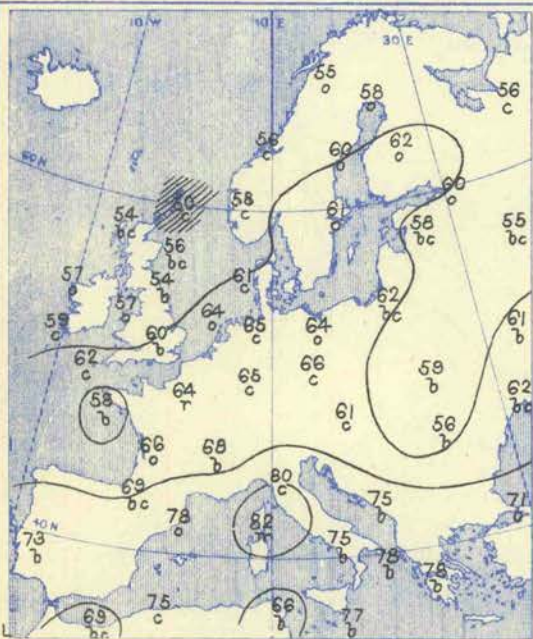
Wind moderate from the Westward in Scotland, and from the North-Westward or Northward over Ireland and the neighbouring Channels; light from the South-Westward over the greater part of England and France, and from between South and East over Norway, Denmark and Germany. South-Westerly in Sweden; North-Westerly over the central and southern parts of Russia. Variable over southern Europe as a whole. Subsequently veering to the Northward in the west and north of England, but remaining South-Westerly in the south-east. Shifting to the South-Westward in Denmark.

Barometer highest, 30.3 ins. and upwards over south-western Russia and the neighbouring parts of Germany and Austria; 30.2 ins. and upwards in an anticyclone embracing the greater part of central and eastern Europe, and also in another system off the Portuguese coasts. Lowest, 29.7 ins. and less in a depression off the west of Norway; shallow secondary systems reported over various parts of Great Britain and the North Sea. Main disturbance and secondaries moving later eastwards or north-eastwards, and barometer rising in most parts of western Europe.

Wednesday, 24th August.

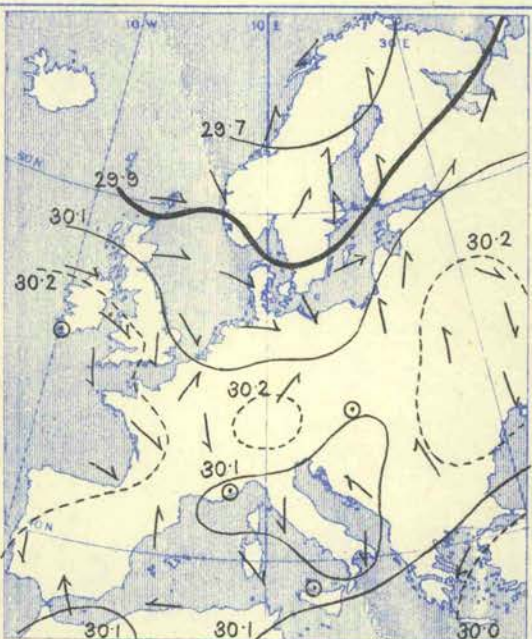
Temperature and Weather.

8 a.m.

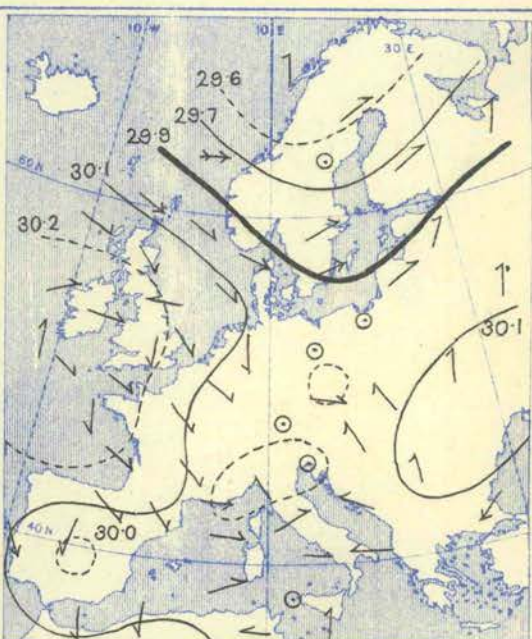


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the United Kingdom generally, but dull at several of our western stations. Cloudy over the western and northern parts of the Continent, with rain at Paris and Limoges and also at Karlstad; fine over eastern, central and southern Europe. Rain falling later in many isolated parts of the Continent—heavily at Breslau and Turin—but weather remaining dry over nearly the whole of our Islands. Thunder heard at Nice in afternoon.

Temperature fallen in most of the western and northern countries, changed rather irregularly elsewhere. Morning readings highest, 82° at Rome and Sanguinaire, 80° at Leghorn, and 78° at Toulon, Barcelona, Brindisi, and Patras; above 70° in many parts of southern Europe. Lowest, (1) 50° at Sumburgh Head, and 54° at Stornoway and Shields; (2) 53° at Kharkov and 55° at Moscow. Daily maxima below 65° on many parts of our own coasts, but thermometer reaching 71° at Leith and Hurst Castle, and 72° in London. Exceeding 85° over southern Europe generally and reaching 95° at Cagliari and 99° at Madrid.

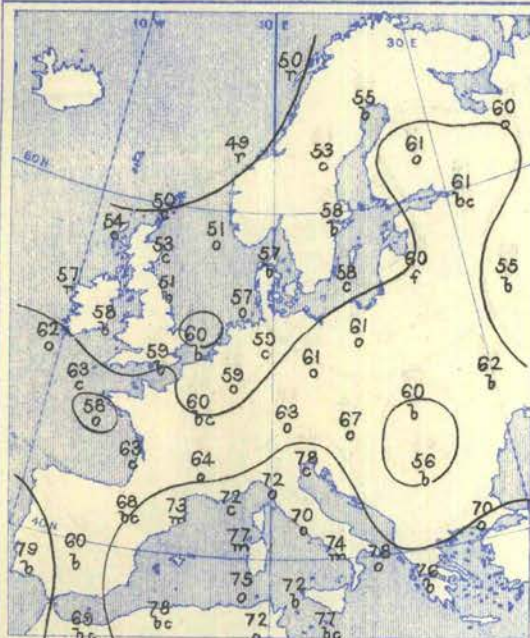
Wind Westerly in Scotland and strong in force in Caithness and the Shetlands; light to moderate from the North-Westward or Northward over the greater part of Ireland and England, and also in the west and south of France, but Westerly or South-Westerly over Belgium and central France. Westerly or North-Westerly over Denmark and Germany; Southerly or South-Westerly over Finland, Scandinavia and the Baltic. Calm or variable over Austria and the south of Russia, and also in the south of France; Northerly or North-Westerly over central and southern Italy. Subsequently veering to the North-Westward in Scotland, but shifting to the Southward in the south of Ireland.

Barometer highest, 30.2 ins. and upwards in an anticyclone extending from the Atlantic over Ireland and the western parts of Great Britain and France, and also in another system over the south of Russia and the neighbouring parts of Austria. Lowest, 29.7 ins. and less in a large shallow depression over the northern parts of Scandinavia; 30.0 ins. and less over Asia Minor. New depression beginning to approach our own western coasts in evening.

Thursday, 25th August.

Temperature and Weather.

8 a.m.

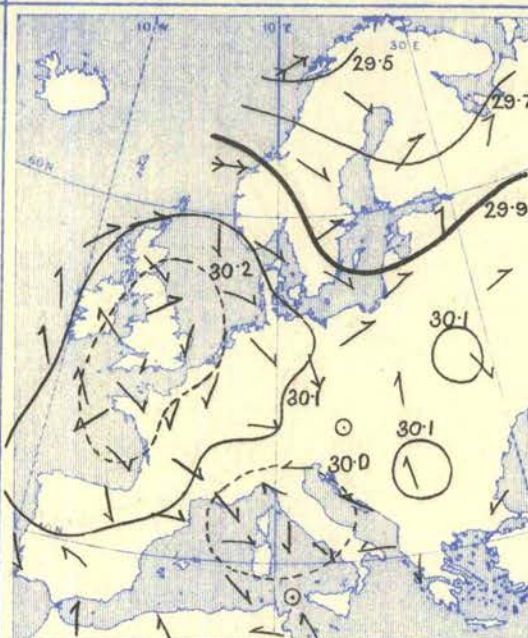


Weather in morning fair over western Europe as a whole, but dull in the west of Ireland, with rain at Belmullet. Dull also in many parts of Germany, Austria, France, and northern Italy, with rain at Leghorn as well as in the west of Norway; fine and bright in nearly all other parts of the Continent. Rain falling later in the west and extreme north of our Islands generally, and also in Austria and northern Italy. Thunderstorm occurring at Nice.

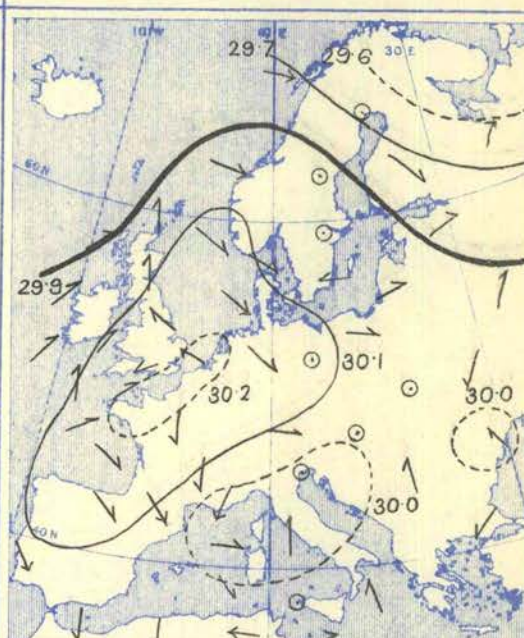
Temperature changed rather irregularly in our Islands, but fallen over the western, northern, and southern parts of the Continent. Morning readings highest, 81° at Oporto, 79° at Lisbon, and 78° at Trieste, Brindisi and Algiers; above 70° in most parts of southern Europe. Lowest, 49° at Christiania, 50° at Bodø and Sumburgh Head, and 51° at Skudesnaes and Shields. Rising during day to between 70° and 74° at several of our own central and southern stations; exceeding 80° in most parts of southern Europe and reaching 91° at Croisette and Lisbon and 93° at Cagliari.

Barometer and Wind.

8 a.m.



6 p.m.



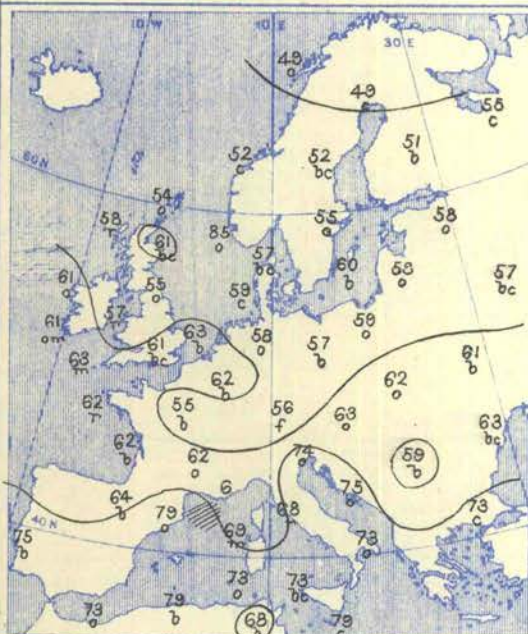
Wind light from the North-Eastward in the south-east of England, and from the Northward over the greater part of France and the Netherlands, but South-Easterly in Wales and the south-west of England; moderate from the Southward in Ireland and from the South-Westward in Scotland. Strong to a gale from West or South-West on the west coast of Norway, and light or moderate from the same quarters over northern Russia. North-Westerly in Sweden, Denmark, Germany, and the south of Norway; variable over Austria and Italy. Southerly winds extending later over nearly the whole of the United Kingdom, and blowing very strongly in the Hebrides.

Barometer highest, 30.2 ins. and upwards over England and the neighbouring parts of the Continent; 30.1 ins. and upwards in an anticyclone covering nearly the whole of western Europe. Lowest, 29.5 ins. and less in a depression lying off the northern parts of the Norwegian coast; 30.0 ins. and less in a shallow disturbance over Italy. Anticyclone subsequently moving eastwards, and large but somewhat shallow depression spreading from the Atlantic over the western and northern parts of the United Kingdom.

Friday, 26th August.

Temperature and Weather.

8 a.m.

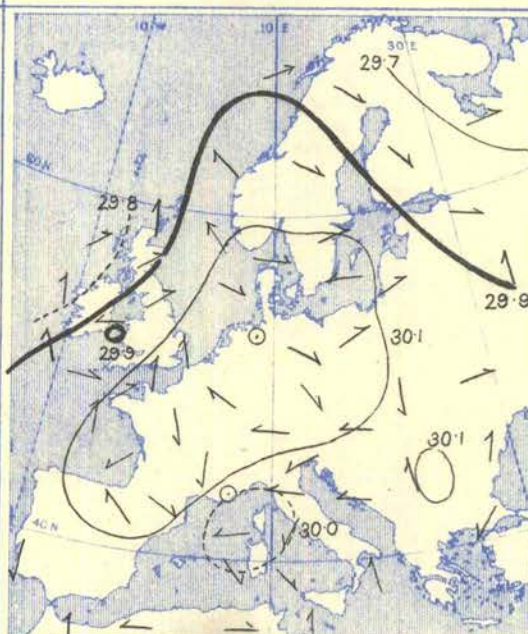


Weather in morning cloudy or dull in the west and north of our Islands, and also in the west of Norway, with fog or mist in several places, and rain at Holyhead, Liverpool, Prawle Point, and Brest. Fine in the south-east of England, as well as over the Netherlands, France, and the Spanish Peninsula. Fine also over the greater part of Sweden and Russia, but dull in Germany, Austria, and Italy, with rain at Cracow and Rome. Rain falling later in the west and north of our Islands generally, as well as in the north-west of France and the west of Norway, and slight showers in the south-east of England. Thunder heard at Nice.

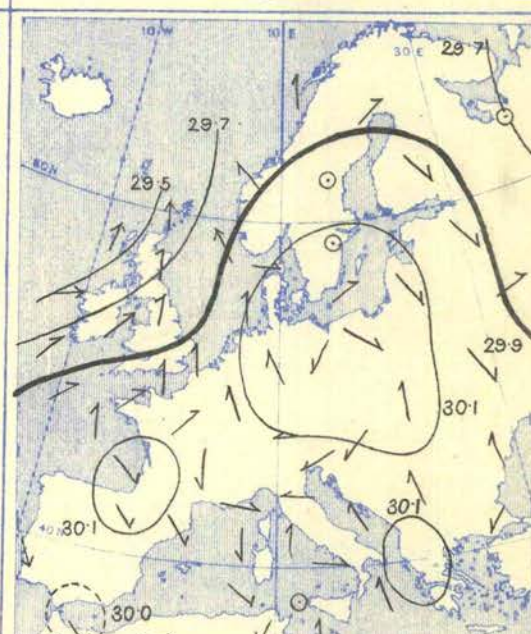
Temperature risen in our Islands, and also in Norway, but fallen in most other countries. Morning readings highest, 79° at Toulon, Barcelona, Malta, and Algiers, and 75° at Lesina and Lisbon; above 70° in most parts of southern Europe, and above 60° in the south of our Islands. Lowest, 49° at Bodø and Haparanda, 51° at Kuopio, and 52° at Hernösand and Christiansund. Rising during day to 70° and upwards in several parts of Great Britain, and to 74° at Nairn. Exceeding 80° over southern Europe generally, the highest readings of all being 95° at Cape Béarn, and 93° at Lisbon and San Fernando.

Barometer and Wind.

8 a.m.



6 p.m.



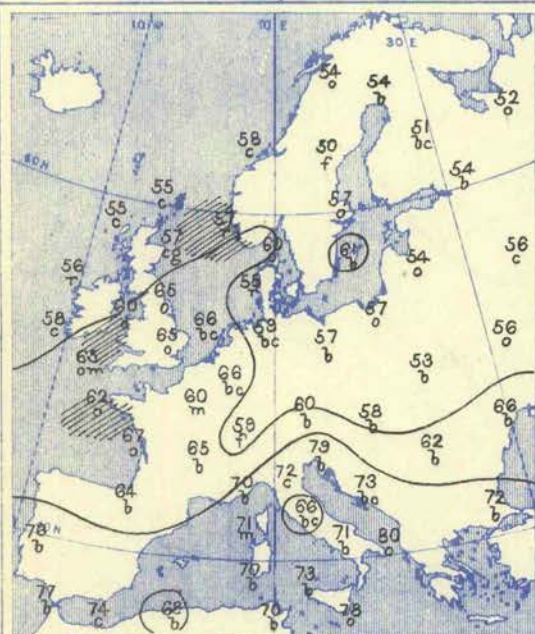
Wind light to moderate from the Southward over the United Kingdom generally, but Westerly on most parts of our south-west coasts; South-Easterly in the west of Norway, and strong in force at Skudesnaes. Light from the Westward or North-Westward over Sweden, Denmark, Germany, and Russia. Easterly over Italy and the Adriatic, as well as in the south-west of France, but variable over the Mediterranean. Subsequently blowing strongly from the Southward or South-Westward on our extreme north-west coasts; no important change occurring elsewhere.

Barometer highest, 30.2 ins. and upwards over Germany; 30.1 ins. and upwards in an anticyclone embracing the whole of France, Germany, the Netherlands, Denmark, the south of Scandinavia, and the south-east of England. Lowest, 29.7 ins. and less in the extreme north of Russia; 29.8 ins. and less in a depression lying off the north-west of our Islands; small secondary system lying over Wales. Depression subsequently spreading over nearly the whole of north-western Europe; centre of system moving north-eastwards outside the north-west of Scotland.

Saturday, 27th August.

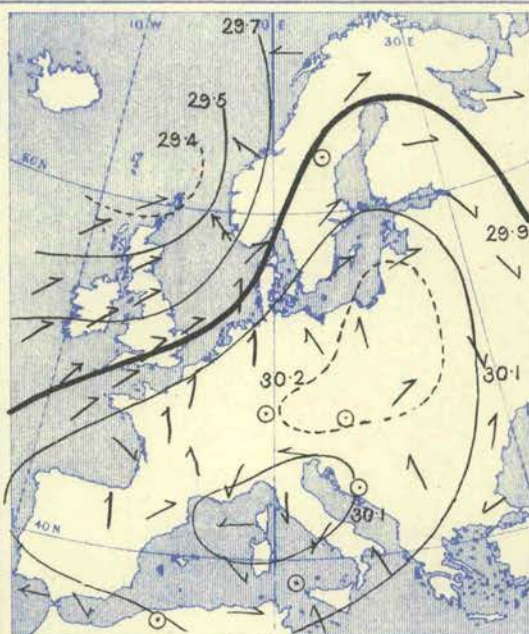
Temperature and Weather.

8 a.m.

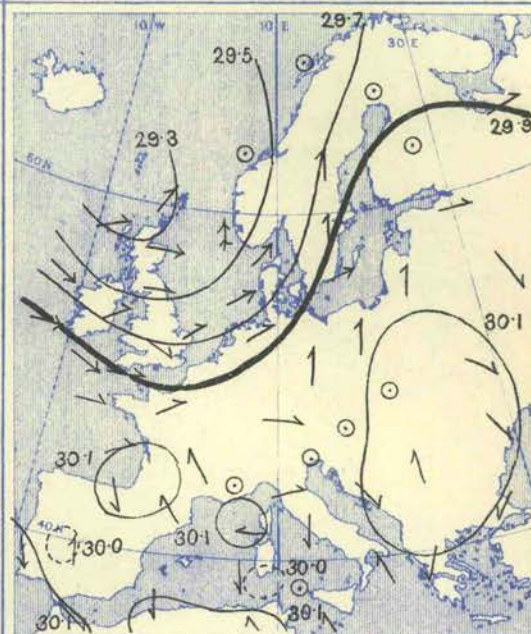


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in Scotland as well as in central, southern and eastern Europe generally. Cloudy or dull elsewhere, with fog in the St. George's Channel, showers at several of the English stations, and steady rain at Belmullet, as well as at Skudesnaes and Fandø. Rain falling later over nearly the whole of north-western Europe, heavily at several of our own western and northern stations, with thunder at Naïm.

Temperature fallen in the west and north of our Islands, and also in Germany and Austria, but risen elsewhere. Morning readings highest, 80° at Barcelona and Brindisi, 79° at Trieste, and 78° at Malta; above 70° in most parts of southern Europe, and touching 65° at several of the English stations. Lowest, (1) 50° at Hernösand, and 51° at Kuopio and Helsingfors; (2) 53° at Warsaw and Lemberg; (3) 55° at Sumburgh Head and Stornoway. Rising during day to between 65° and 70° in most parts of Great Britain, and reaching 72° at Yarmouth. Exceeding 80° over southern Europe generally, and reaching 93° at Cape Béarn and 94° at Madrid.

Wind moderate to fresh from the Westward or South-Westward over our Islands, the Netherlands and the north of France; South-Easterly over Germany and the eastern shores of the North Sea, with a gale at Skudesnaes. Light from the South-Westward in Sweden, and from the North-Westward in Russia; calm in Austria, variable over Italy, the Spanish Peninsula, and the south of France. Subsequently increasing to a strong breeze or moderate gale from the Westward on our western coasts and from the North-Westward in the north of Scotland.

Barometer highest, 30.2 ins. and upwards over Poland and eastern and southern Germany; 30.1 ins. and upwards in an anticyclone covering the greater part of central and southern Europe. Lowest, 29.4 ins. and less in a depression off the north of Scotland; 29.8 ins. and less in a shallow area over northern Russia. Former disturbance spreading south-eastwards later; barometer falling over the North Sea, but rising briskly on our western coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week the weather in all but the western countries was affected by a large anticyclone, the central portion of which lay over Scandinavia and the Baltic, the sky being clear in most places, with high temperature in the central and southern regions. A shallow depression was, however, reported over the Bay of Biscay, and as this spread northwards thunderstorms were experienced in many parts of Ireland, England, and France, with heavy falls of rain in a few places.

On the night of the 21st the depression appears to have dispersed, and on the following day a further rise of temperature occurred over England, the thermometer exceeding 80° in most places, and reaching 89° in London. A new disturbance was, however, approaching our north-west coasts from the Atlantic, and on the 23rd this moved north-eastwards, while shallow secondary systems advanced eastwards across Great Britain, the latter occasioning showers in a few isolated places. As the depression moved on to the Continent the anticyclone over Scandinavia receded in a south-easterly direction, but a new high-pressure system extended over our Islands from the Atlantic, the winds over western Europe veering to the North-Westward or Northward with a decided fall of temperature. The latter system soon moved away, however, to the eastward, and in its rear a large depression spread over the whole of north-western Europe, the wind increasing from the South-Westward in our Islands, with a slight gale on our western coasts, and with rain in nearly all districts. At the close of the week the unsettled weather appeared to be spreading gradually to all neighbouring parts of the Continent.

Over southern and eastern Europe the conditions remained fine until nearly the end of the period, when rain fell in many parts of Austria and Italy. In Spain, Italy, and the south of France, the thermometer frequently exceeded 85°, and in some cases rose well above 90°.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 200.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	26.5	?	26	?	WESTBOURNE (Emsworth)	38.9*	- 0.2	40*	- 6
STRATHPEFFER SPA	31.7	+5.8	30	+ 5	WATERGATE (Emsworth)	32.7	?	34	?
EDINBURGH	37.9	+5.2	38	+ 6	BRIGHTON	37.0	-10.2	33	-10
MORPETH	31.8	?	32	?	EASTBOURNE	43.1	- 0.3	44	0
NEWCASTLE-ON-TYNE	30.8	?	31	?	VENTNOR HOSPITAL	28.6	?	29	?
OSWALDKIRK (Yorkshire)	31.2	+ 1.4	32	+ 3	SOUTHPORT	34.4	?	35	?
HOLLESLEY BAY	42.2	?	44	?	COLWYN BAY	44.4	?	45	?
SHEFFIELD	33.8	?	34	?	TENBY	33.1*	- 5.9	34*	- 8
WORKSOP	32.6	+ 0.8	33	+ 1	NEWQUAY				
THURCASTON (Leicestershire)	37.1	+ 1.5	38	+ 3	TORQUAY	40.3*	- 4.9	42*	- 4
PLUMSTEAD COMMON	40.1	?	41	?	GUERNSEY	48.3*	- 5.2	50*	- 4
MARGATE	33.1	- 7.9	34	- 7					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.VOL. XV. No. 35.]
Third Series.

WEEK ENDING SATURDAY, SEPTEMBER 3RD, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 206.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	75	41	59.1	47.4	52.9	1 below	Day-deg. 76	Day-deg. - 6	Day-deg. 0	Day-deg. 0	Day-deg. 1582	Day-deg. +168	Day-deg. 395	Day-deg. -228
	1. SCOTLAND, EAST	81	42	63.1	48.9	55.6	1 above	95	- 1	0	0	1841	+108	427	-222
	2. ENGLAND, N.E.	75	44	64.9	50.3	57.1	1 above	106	0	0	0	1983	+149	333	-216
	3. ENGLAND, EAST	79	39	69.0	48.1	58.0	0 (average)	112	- 5	0	0	2228	+ 89	410	-207
	4. MIDLAND COUNTIES	79	42	67.2	49.3	57.7	0 (average)	110	- 4	0	0	2235	+ 93	404	-215
5. ENGLAND SOUTH	83	43	70.0	51.4	60.2	0 (average)	127	- 2	0	0	2462	+151	234	-243	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	72	46	61.3	51.3	56.0	0 (average)	98	+ 1	0	0	1980	+168	245	-217
	7. ENGLAND, N.W.	70	45	63.3	52.4	57.5	0 (average)	109	- 1	0	0	2135	+175	215	-244
	8. ENGLAND, S.W.	80	40	66.6	50.0	57.8	1 below	111	- 4	0	0	2363	+194	205	-156
	9. IRELAND, NORTH	74	45	63.3	51.5	57.1	1 above	106	+ 4	0	0	2083	+160	227	-163
	10. IRELAND, SOUTH	77	42	67.0	53.1	59.6	2 above	123	+11	0	0	2437	+265	165	-134
—CHANNEL ISLANDS—		77	46	68.5	55.8	61.8	1 above	139	+ 9	0	0	2769	+343	55	- 93

DISTRICTS. (See p. 206.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 20	10ths of in. 10 more	173	+15	37.3	+ 7.4	19	- 5	20	- 3	942	+87	28	+ 2	
	1. SCOTLAND, EAST	5	13	6 more	132	+ 2	16.9	- 3.1	28	- 3	29	- 2	1050	+52	32	+ 2	
	2. ENGLAND, N.E.	3	2	3 less	118	- 3	13.2	- 3.3	30	+ 3	32	+ 4	977	+10	31	+ 1	
	3. ENGLAND, EAST	2	2	3 less	106	-12	12.8	- 3.5	53	+13	57	+15	1143	-53	35	- 1	
	4. MIDLAND COUNTIES	2	2	3 less	107*	- 8	12.8	- 5.0	43	+ 8	45	+ 9	1077	+31	34	+ 1	
5. ENGLAND, SOUTH	2	1	4 less	97	-14	11.6	- 5.9	60	+20	64	+23	1151	-36	37	- 1		
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	17	7 more	151	+15	26.8	- 3.0	21	-11	22	- 8	1079	+ 67	34	+ 2	
	7. ENGLAND, N.W.	4	5	3 less	128	+ 3	22.3	+ 1.4	27	- 7	29	- 6	1144	+110	36	+ 3	
	8. ENGLAND, S.W.	3	3	5 less	115	-11	18.9	- 4.6	55	+13	58	+15	1318	+ 42	41	+ 1	
	9. IRELAND, NORTH	5	7	1 less	160	+12	22.8	- 0.7	20	- 8	21	- 8	1001	+ 31	31	+ 1	
	10. IRELAND, SOUTH	3	1	7 less	124	-10	22.7	- 2.1	31	- 1	33	0	1123	+ 27	35	+ 1	
— CHANNEL ISLANDS—		43	2	4 less	130	- 2	14.7	- 4.5	59	+ 7	64	+ 9	1497	+ 61	48	+ 2	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather was unsettled, with occasional rain, in all parts of the Kingdom at the commencement of the week, and these conditions continued to prevail over the north of Ireland and the greater part of Scotland until almost the end of the period. In other parts of the Kingdom, however, the weather soon became very fine and dry, and at the close of the week this improvement was spreading northwards.

Temperature differed very little from the mean for the time of year. The highest of the maxima were recorded on September 3rd, and varied from 83° in England S., and 81° in Scotland E., to 70° in England N.W. The lowest of the minima, which were registered on somewhat irregular dates, ranged from 39° in England E. and 40° in England S.W., to 46° in Scotland W. and the Channel Islands.

Rainfall greatly exceeded the mean in Scotland, but was deficient over England and Ireland. Over the eastern and southern parts of England and in the south of Ireland the fall was very slight indeed.

Bright Sunshine was in excess in nearly all the English districts, but showed a deficiency in Ireland and Scotland. The percentage of the possible duration ranged from 64 in England S. and the Channel Islands, 58 in England S.W., and 57 in England E., to 21 in Ireland N., and 20 in Scotland N.

Barometer and Wind.—During the earlier days of the week a series of large and rather deep depressions moved north-eastwards or eastwards either over or outside the northern parts of the United Kingdom, causing fresh to strong winds or slight gales from South-West and West. By Wednesday, however, after a depression had travelled quickly eastwards over our northern coasts to Denmark and the Baltic, an anticyclone appeared over our southern districts and the winds in those regions became light and more variable in direction. Depressions continued to affect the north and north-west, but they were less important, and by the end of the week their influence was almost entirely superseded by that of the anticyclone.

II.—DATA from which the SUMMARY on page 205 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.	
				Of Highest each day.	Of Lowest each day.	For whole of each day.										
								Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	60	43	56.3	46.9	51.3	- 0.4	65	0	5	0.67	- 0.13	*	*	*	*
	Stornoway	64	42	57.6	46.0	51.5	- 1.2	67	0	6	1.33	+ 0.45	17.2	- 9.1	18	- 8
	Wick	66	43	61.3	45.1	52.7	- 0.6	75	0	7	1.30	+ 0.69	*	*	*	*
	Laing	75	41	62.5	46.6	54.1	+ 0.1	85	0	5	1.50	+ 0.92	*	*	*	*
	Glencarron	61	43	55.5	47.8	51.4	- 1.9	66	0	7	3.98	+ 2.41	*	*	*	*
	Fort Augustus	68	43	61.3	49.0	54.8	- 0.5	90	0	5	1.56	+ 0.77	18.5	+ 1.1	19	+ 2
1. SCOTLAND, E.	Fort William	64	48	59.5	50.7	54.8	- 0.9	90	0	7	3.42	+ 1.99	14.9	- 5.6	15	- 5
	Nairn	75	42	63.1	47.1	54.6	- 0.3	88	0	5	1.38	+ 0.85	*	*	*	*
	Aberdeen	81	44	64.9	47.6	55.7	+ 0.9	96	0	4	1.51	+ 0.89	38.1	+ 4.8	39	+ 5
	Braemar	72	43	59.1	47.3	52.9	+ 1.2	76	0	5	1.00	+ 0.08	27.0†	+ 1.2†	28†	+ 2†
	Ochertyre	78	44	65.7	50.1	57.4	+ 2.2	108	0	5	1.28	+ 0.53	*	*	*	*
	Leith	69	46	64.3	50.1	56.8	+ 0.3	104	0	5	1.71	+ 1.20	*	*	*	*
2. ENGLAND, N.E.	Marchmont	69	45	61.4	51.3	56.1	+ 1.6	99	0	5	1.01	+ 0.31	24.8	- 8.6	26	- 7
	Alnwick Castle	75	45	64.8	49.7	56.8	+ 2.0	104	0	4	0.38	- 0.22	*	*	*	*
	Durham	75	45	65.2	50.3	57.3	+ 1.0	107	0	2	0.15	- 0.36	31.9	+ 0.5	33	+ 1
	Shields	74	46	64.3	48.9	56.1	- 0.3	99	0	3	0.20	- 0.36	*	*	*	*
	Scarborough	75	44	65.1	49.3	56.7	- 0.7	103	0	3	0.19	- 0.35	*	*	*	*
	Spurn Head	70	50	64.9	53.1	58.7	+ 0.6	117	0	2	0.15	- 0.23	*	*	*	*
3. ENGLAND, E.	Hillington	78	39	68.7	45.3	56.3	- 1.9	100	0	3	0.28	- 0.27	47.1	+10.1	50	+12
	Yarmouth	73	45	66.6	51.0	58.3	- 0.4	114	0	2	0.11	- 0.41	*	*	*	*
	Geldeston	78	41	69.6	49.0	58.7	+ 0.3	117	0	1	0.14	- 0.32	48.5	+ 7.8	52	+10
	Cambridge	79	42	70.9	49.1	59.4	+ 0.4	122	0	2	0.36	- 0.13	55.1	+15.9	59	+19
	Rothamsted	78	40	69.4	46.2	57.1	- 0.6	106	0	2	0.21	- 0.32	56.2	+16.9	60	+20
	Bawtry (Hesley Hall)	74	44	66.4	49.1	57.2	- 0.2	106	0	2	0.16	- 0.32	*	*	*	*
4. MIDLAND COUNTIES	Loughborough	75	46	67.9	50.6	58.7	0.0	117	0	1	0.16	- 0.36	*	*	*	*
	Stamford (Duddington)	75	44	68.0	49.1	58.0	- 0.9	112	0	2	0.14	- 0.36	*	*	*	*
	Cheadle	70	45	63.5	49.4	56.0	+ 0.4	98	0	3	0.46	- 0.34	*	*	*	*
	Shirley (near Solihull)	74	43	66.2	49.0	57.1	- 1.0	106	0	3	0.45	?	*	*	*	*
	Churchstoke	73	44	68.3	49.5	58.3	0.0	114	0	3	0.13	- 0.41	*	*	*	*
	Hereford	76	42	67.3	47.1	56.6	0.0	102	0	3	0.23	- 0.39	45.1	+ 6.8	48	+ 8
5. ENGLAND, S.	Cirencester	76	49	69.6	50.6	59.5	+ 0.4	123	0	2	0.08	- 0.42	49.9	+10.1	53	+12
	Oxford	79	49	69.6	50.6	59.5	+ 0.4	123	0	2	0.08	- 0.42	49.9	+10.1	53	+12
	London	83	43	73.3	49.9	60.9	+ 0.6	132	0	2	0.14	- 0.36	56.6†	+20.6†	60†	+23†
	North Foreland	76	49	69.3	52.7	60.5	+ 1.1	130	0	1	0.03	?	*	*	*	*
	Cranley	72	43	68.4	50.4	58.9	- 1.6	118	0	2	0.09	- 0.38	*	*	*	*
	Dungeness	72	49	68.3	52.4	59.9	0.0	125	0	2	0.22	- 0.27	65.1	+21.2	69	+24
6. SCOTLAND, W.	Hastings (St. Leonards)	83	43	72.8	50.0	60.7	+ 0.6	131	0	3	0.17	- 0.38	59.0	+14.2	63	+17
	Southampton	72	46	68.9	53.9	61.0	+ 0.4	133	0	2	0.05	- 0.47	*	*	*	*
	Hurst Castle	77	48	68.9	50.6	59.2	+ 0.7	120	0	3	0.18	- 0.47	*	*	*	*
	Shaftesbury	77	48	68.9	50.6	59.2	+ 0.7	120	0	3	0.18	- 0.47	*	*	*	*
	Laudale (Loch Sunart)	64	46	59.2	50.7	54.7	- 1.0	89	0	7	3.69	+ 2.41	*	*	*	*
	Glasgow	68	46	60.3	50.9	55.3	+ 0.2	93	0	7	2.07	+ 1.15	19.2	- 9.5	20	- 8
7. ENGLAND, N.W.	Ardrossan	65	48	61.3	52.0	56.4	- 0.1	101	0	6	0.94	+ 0.06	*	*	*	*
	Glenlee	72	48	63.0	51.4	56.9	+ 2.1	104	0	7	1.61	+ 0.59	*	*	*	*
	Gilcrux (Cumberland)	65	49	61.2	51.9	56.3	+ 1.3	100	0	4	0.58	?	18.3	?	19	?
	Douglas (Isle of Man)	69	46	62.9	50.9	56.5	+ 0.9	102	0	4	1.03	+ 0.15	25.3	-10.9	27	- 9
	Stonyhurst	65	47	61.6	51.2	56.1	- 0.2	99	0	5	0.74	- 0.43	26.2	- 5.6	28	- 4
	Blackpool	67	51	63.2	53.8	58.2	+ 0.5	113	0	4	0.68	- 0.04	19.1	- 3.1	20	-13
8. ENGLAND, S.W.	Manchester (Prestwich)	66	45	63.5	50.8	56.8	- 0.1	104	0	4	0.76	- 0.64	25.9	?	27	?
	Liverpool Obsy. (Bidston)	69	50	63.9	52.7	58.0	- 0.3	112	0	4	0.31	- 0.29	*	*	*	*
	Llandudno	70	49	65.1	53.0	58.7	- 0.2	117	0	2	0.05	- 0.53	30.6	- 2.4	32	- 2
	Holyhead	65	51	62.4	52.9	57.4	- 0.6	108	0	4	0.23	- 0.47	*	*	*	*
	Llandoverly	79	42	68.6	48.3	57.8	+ 0.1	111	0	4	0.40	- 0.60	*	*	*	*
	Pembroke	64	54	62.3	46.7	54.0	- 4.2	84	0	3	0.06	- 0.66	39.4	- 2.0	42	0
9. IRELAND N.	Clifton	80	47	67.8	53.6	60.2	+ 1.8	127	0	2	0.24	- 0.46	*	*	*	*
	Arlington (N. Devon)	72	41	65.7	48.3	56.5	- 0.6	102	0	3	0.76	- 0.32	*	*	*	*
	Cullompton	79	40	70.1	47.1	57.9	- 0.5	111	0	3	0.27	- 0.33	51.4	+11.9	55	+14
	Falmouth	69	50	65.8	53.0	59.0	+ 0.3	119	0	3	0.14	- 0.71	64.5	+19.5	69	+23
	Plymouth	70	46	66.1	49.8	57.5	- 2.2	109	0	3	0.14	- 0.48	53.1	+11.7	57	+15
	Prawle Point	71	48	66.6	53.0	59.4	+ 0.9	122	0	3	0.05	- 0.43	*	*	*	*
10 IRELAND S.	Malin Head	65	49	59.9	52.9	56.2	- 0.3	99	0	6	0.93	?	*	*	*	*
	Londonderry	74	47	63.1	50.8	56.6	+ 0.2	102	0	6	1.17	+ 0.37	*	*	*	*
	Edenfel (Omagh)	73	45	63.7	51.0	57.0	+ 2.3	105	0	5	0.85	+ 0.07	*	*	*	*
	Belmullet	66	50	62.0	53.6	57.6	+ 0.3	109	0	6	0.76	- 0.17	*	*	*	*
	Markree Castle	74	46	64.8	50.4	57.2	+ 2.0	106	0	5	0.63	- 0.25	18.1	- 9.6	19	-10
	Armagh	73	47	64.3	51.7	57.6	+ 2.0	109	0	3	0.31	- 0.36	21.4	- 4.7	23	- 4
CHANNEL ISLANDS	Donaghadee	74	45	65.4	50.3	57.4	+ 1.2	108	0	6	0.57	- 0.13	*	*	*	*
	Edgeworthstown	?	?	?	?	?	?	?	?	6	0.44	- 0.26	*	*	*	*
	Dublin	74	49	67.7	53.5	60.2	+ 2.5	127	0	1	0.02	- 0.49	32.8	- 1.9	35	0
	Parsonstown	77	46	67.4	51.9	59.2	+ 2.8	120	0	4	0.14	- 0.54	29.8	+ 1.7	31	+ 1
	Kilkenny	74	43	67.4	50.3	58.3	+ 0.7	114	0	1	0.02	- 0.80	*	*	*	*
	Roche's Point	67	50	65.3	54.0	59.3	+ 1.3	121	0	3	0.19	- 0.71	*	*	*	*
CHANNEL ISLANDS	Valencia	72	51	66.0	55.1	60.2	+ 2.0	127	0	4	0.35	- 0.80	30.4	- 2.7	32	- 3
	Killarney	75	42	67.6	52.5	59.6	+ 1.5	123	0	2	0.03	?	*	*	*	*
	Foynes	76	50	67.7	54.1	60.5	+ 3.0	130	0	4	0.21	?	*	*	*	*
	Scilly (St. Mary's)	70	53	67.9	56.9	62.1	+ 2.8	141	0	2	0.06	- 0.52	60.1	?	65	?
	Jersey	77	46	69.1	54.7	61.5	- 0.2	137	0	3	0.28	- 0.23	58.4	+ 5.0	63	+ 8

Stations marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

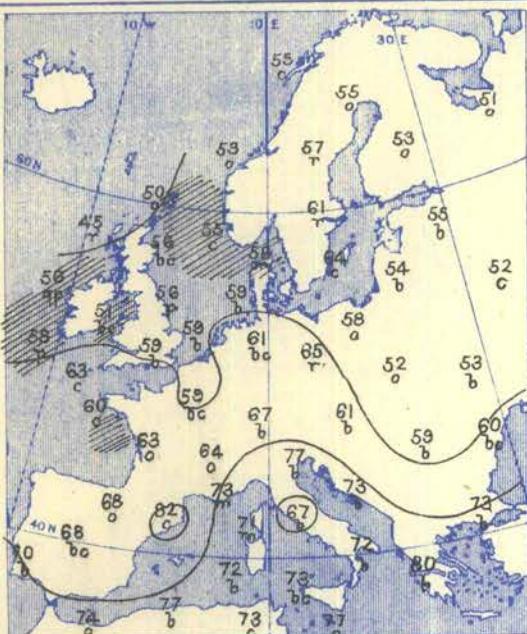
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 28th August.

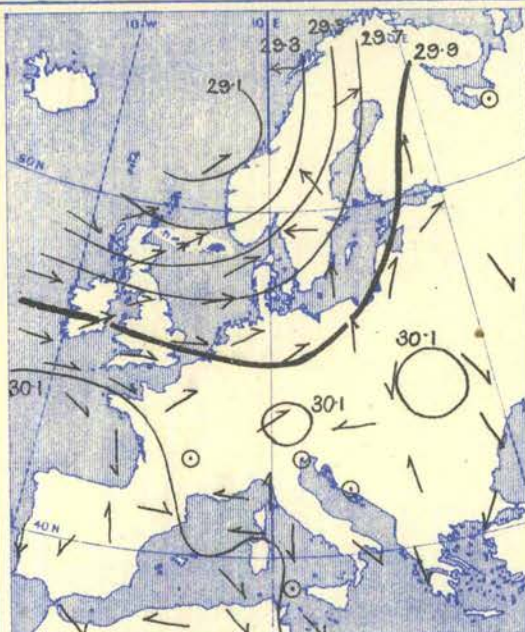
Temperature and Weather.

8 a.m.

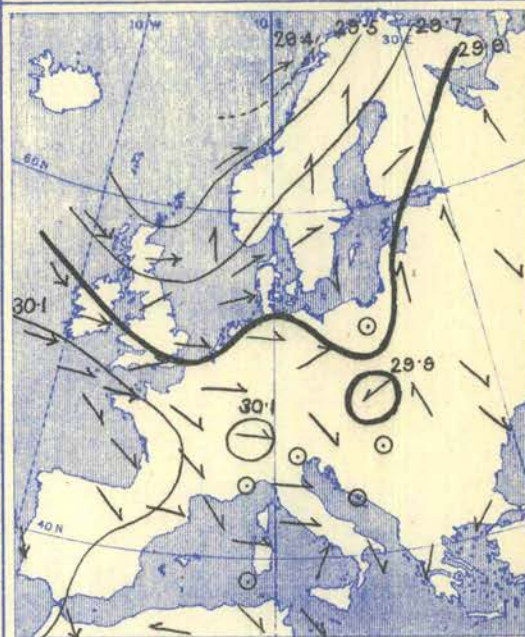


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over southern, central and eastern Europe, as well as over England and the east of Ireland, dull and rainy on our extreme west and north-west coasts and in Sweden. Rain later in almost all parts of our Islands, France and Scandinavia, but not in large quantities except in the north-east of Scotland; a separate fall over Germany also.

Temperature fallen decidedly over Great Britain. Morning readings highest, 80° at Patras and exceeding 70° over the Mediterranean as a whole, more than 60° in the west and north of France and along the southern coasts of our Islands. Lowest, 45° at Sumburgh Head, 50° at Sumburgh Head, and considerably below 60° over northern Europe generally. Rising later to 60° and more over the major part of our Islands, to between 65° and 72° over the southern half of England, to 70° at Paris, 77° at Munich, 81° at Lyons, and 86° at Perpignan.

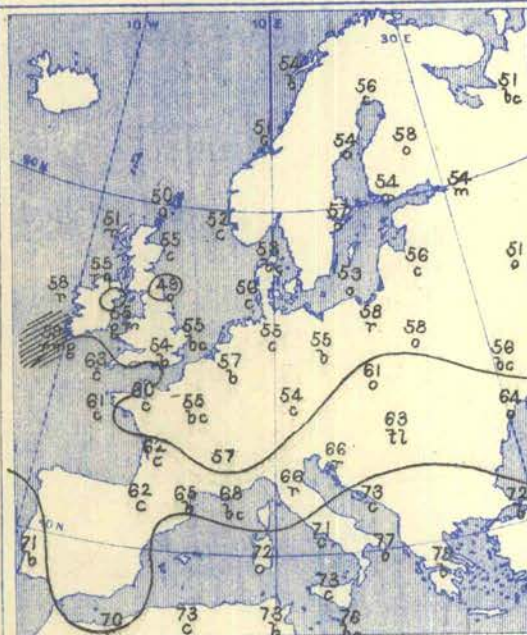
Wind very light and variable over the southern and eastern countries, Westerly moderate to strong over the British Islands and the North Sea, South-Westerly to Southerly over the Baltic, South-Easterly over the northern parts of Scandinavia. Becoming North-Westerly (strong) in the north of Scotland later, and North-Westerly (moderate) over the Bay of Biscay.

Barometer highest, 30.1 ins. and more to 30.0 ins. over the western, central, and most of the eastern parts of Europe. Lowest, below 29.1 ins. in a depression off Christiansund; gradients steep for Southerly and South-Easterly winds over Scandinavia, and for Westerly winds over the northern parts of the North Sea. Rising later all over north-western Europe as the depression noted above moved north-eastwards.

Monday, 29th August.

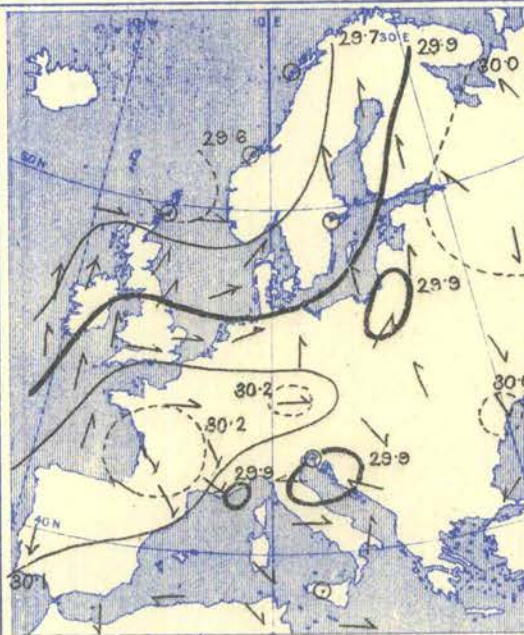
Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of the Continent, but rainy over the northern parts of Italy and the Adriatic. Rainy also in Ireland and the west of Scotland, and becoming unsettled over England also. Rain falling later over our Islands and their neighbourhood generally, but only in small quantities; a thunderstorm at Cuxhaven.

Temperature fallen a little in most places, and considerably at Berlin. Morning readings highest, 79° at Athens, 76° at Malta, 73° at Algiers and Barcelona, 71° at Pesaro; 63° at Scilly. Lowest, (1) 51° at Moscow, Archangel, and Christiansund; (2) 50° at Sumburgh Head, 51° at Sumburgh Head and Nairn, 52° at Leith, and 49° at Shields and Donaghadee. Rising later to between 63° and 67° over the southern half of our Islands, to 65° at Berlin, to 71° at Jersey, 72° at Paris, and to 81° at Rochefort and Nice.

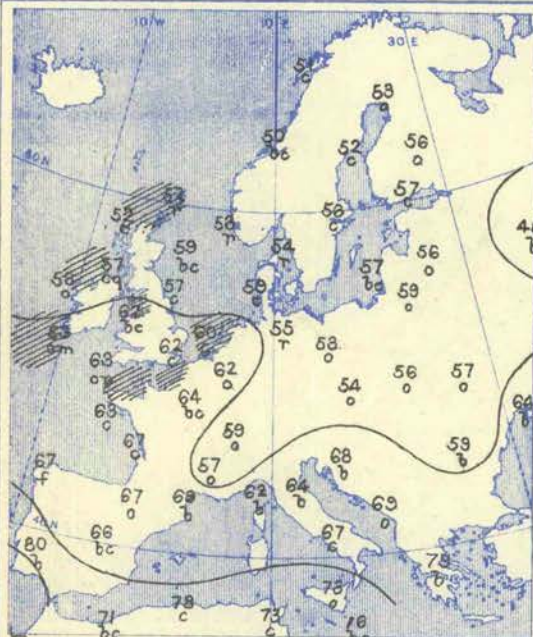
Wind (1) light and anticyclonic over France and the greater part of Germany and Russia; (2) Westerly to Southerly over our Islands, and blowing very freshly at the Irish stations; (3) Westerly to Southerly over Denmark, and Sweden also. Becoming very strong on our western and north-western coasts later, and freshening considerably over England.

Barometer highest, 30.2 ins. and more to 30.1 ins. over France, Spain, and the greater part of Germany, and exceeding 30.0 ins. over the northern half of Russia. Lowest, (1) below 29.6 ins. in a depression lying between Scotland and the west of Norway, and covering the Shetlands, to below 29.9 ins. in two small depressions, one over the Gulf of Genoa, the other over the northern parts of the Adriatic and Dalmatia. A new depression passing north-eastwards outside our extreme northern coasts later, and a "V"-shaped secondary coming over England from the south-westward.

Tuesday, 30th August.

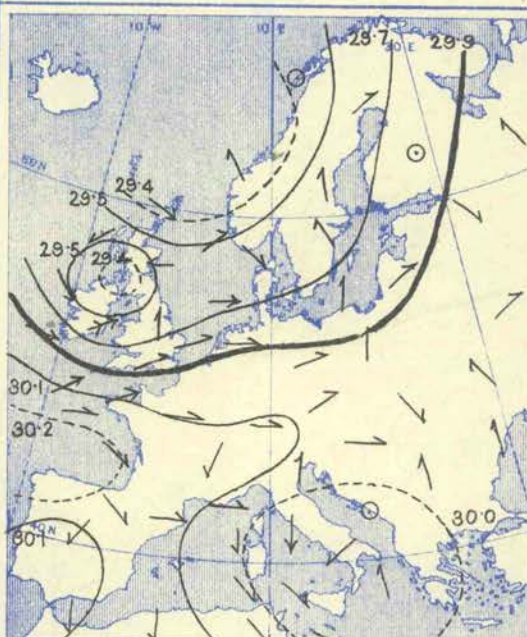
Temperature and Weather.

8 a.m.

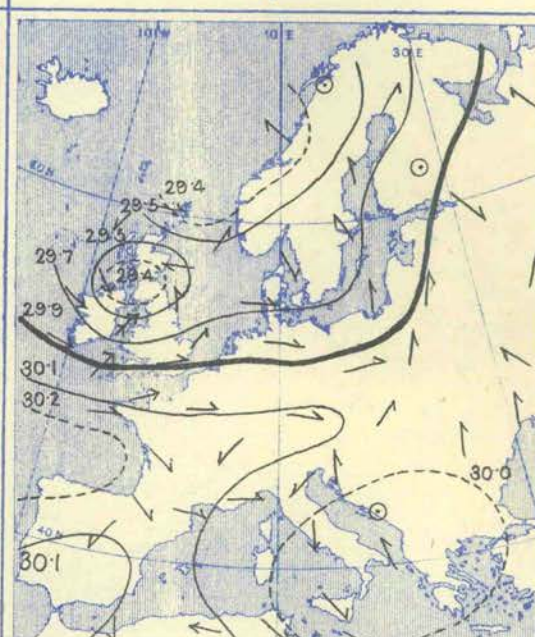


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine and bright over the greater part of Continental Europe, but changeable and unsettled over the north-western and northern countries, rainy in Denmark, dull and unsettled over the western and northern parts of the British Islands, with rain in some places. Rain falling later in considerable quantity at our northern stations, and in smaller quantities in the west, and appearance of sky very unsettled over our south and east coasts.

Temperature rising over our Islands and France. Morning readings highest, 79° at Patras, 78° at Algiers, 76° at Barcelona, 72° at Leghorn, 64° at Paris, and above 60° at most of the English stations. Lowest, (1) 48° at Moscow, 50° at Riga; (2) 50° to 51° in the north-west of Norway, 52° at Sumburgh Head and Stornoway, and below 60° over our northern districts generally. Rising later to between 72° and 76° in many parts of England, and touching 66° at Berlin, 75° at Paris, 79° at Nice, 87° at Perpignan, and 95° at Lisbon.

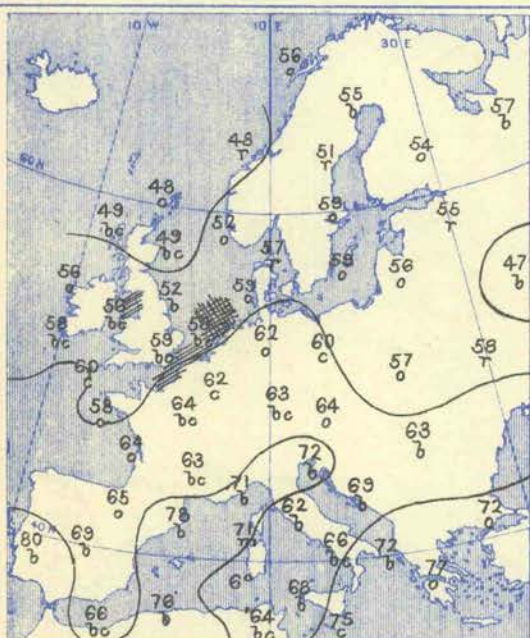
Wind (1) Westerly (North-Westerly to South-Westerly) over the British Islands and the Channel, and blowing strongly in many places; South-Westerly to Southerly over Germany, the Baltic and Sweden, South-Easterly in the west of Norway; (2) light to moderate in force, and very variable in direction over the southern and eastern parts of Europe. Increasing to a gale from between South-West and North-West over the greater part of our Islands later.

Barometer highest, 30.2 ins. and more over the north of Spain, and 30.1 ins. to 30.0 ins. in a broad band stretching thence over southern and central Europe to Russia. Lowest, (1) 29.2 ins. and less to 29.3 ins. in a depression over the Shetlands and their neighbourhood, and below 29.5 ins. in a secondary over Denmark; (2) below 29.9 ins. over the Grecian Archipelago and Asia Minor. A new and strongly marked depression advancing rapidly from the westward to our northern districts towards night.

Wednesday, 31st August.

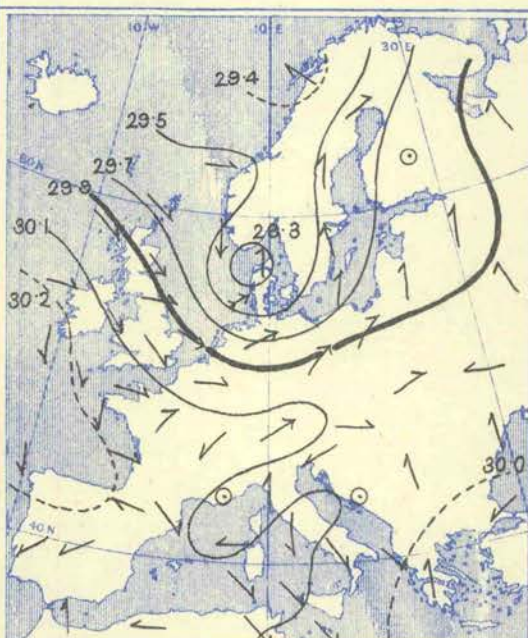
Temperature and Weather.

8 a.m.

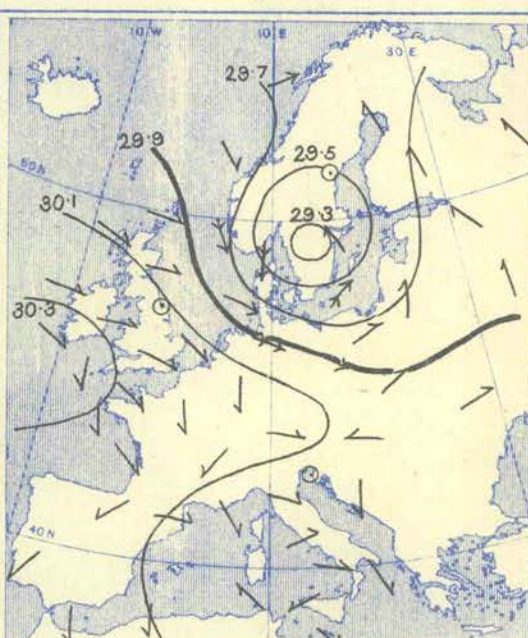


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the British Islands, France, and southern and south-eastern Europe, very rough and unsettled over the North Sea, Denmark, and the south of Scandinavia, and becoming unsettled over the Baltic and western Russia; rain falling in Denmark and many parts of Norway and Sweden. Much rain later over Scandinavia and small quantities in the north and north-west of our Islands and north Germany, but 0.2 ins. at Paris and Munich.

Temperature falling over the United Kingdom and northern Europe. Morning readings highest, 50° at Lisbon, and above 70° at many stations on the northern coasts of the Mediterranean and over south-eastern Europe. Lowest, (1) 47° at Moscow, 48° at Kharkov and at Uleaborg, 55° at St. Petersburg; (2) 45° at Christiansund and Sumburgh Head, 49° at Stornoway and Aberdeen, 55° at Parsonstown, York and Loughborough. Rising later to between 60° and 64° over Ireland, and to between 63° and 69° over the greater part of England, to 68° at Berlin, 66° at Paris, 81° at Nice, and 88° at Perpignan. Falling considerably over our Islands at night.

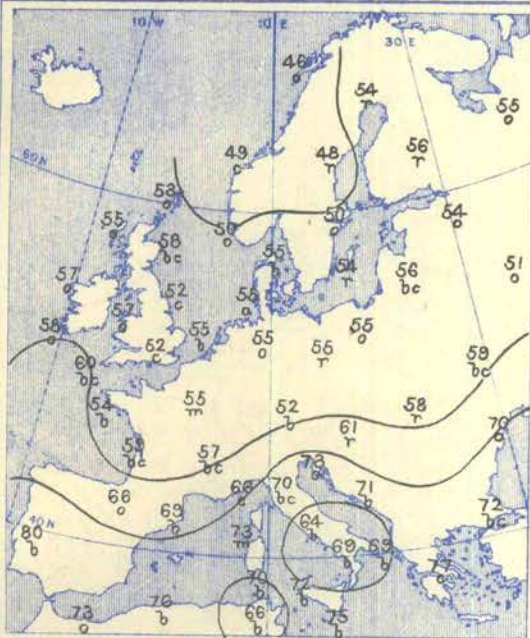
Wind (1) North-Westerly and rather strong over the United Kingdom, Westerly and South-Westerly over Germany, Southerly over the Baltic and Gulf of Bothnia; (2) very light and variable over the southern countries. A strong gale from South-West to North-West springing up later over the Baltic, but wind in our Islands falling light generally.

Barometer highest, 30.2 ins. and more over the south-west of Ireland, the Bay of Biscay, and north-west of Spain, and exceeding 30.0 ins. over all the western and southern parts of our Islands, France, central, and south-eastern Europe. Lowest, below 29.4 ins. over Finmark, and below 29.3 ins. in a well marked depression over Denmark and the Skager Rack. Rising all day over the British Islands and the North Sea, falling fast over the Baltic.

Thursday, 1st September.

Temperature and Weather.

8 a.m.

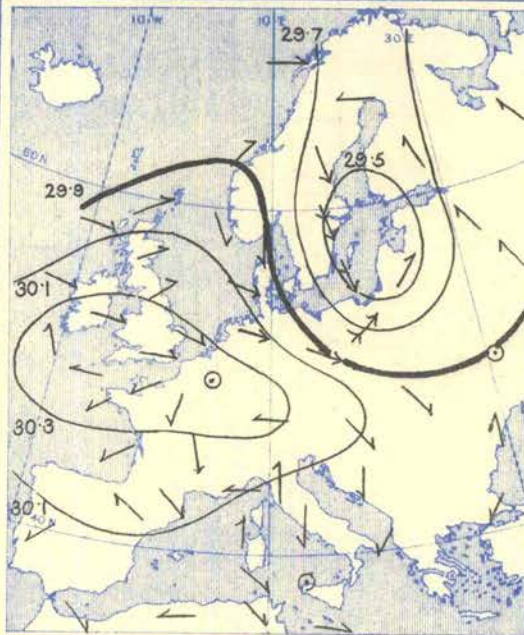


Weather in morning fine over the Mediterranean, France and the greater part of the British Islands; very unsettled over the Baltic and northern Europe, with rain at several stations. A great deal of rain falling later over northern Europe and Scotland, and small quantities over the northern and western parts of the British Islands; remaining continuously fine over the east and south of the United Kingdom, and over the whole of the southern half of Europe.

Temperature fallen considerably over Germany, France and the south of England, as well as at many of the Baltic stations. Morning readings highest, 70° and more over the southern half of the Mediterranean and on the eastern shores of the Adriatic, and exceeding 60° over the south-western parts of England. Lowest, 46° at Bodø, 49° at Christiansund and Karlstad, and below 60° over eastern, central and northern Europe, and nearly the whole of the British Islands. Rising later to between 65° and 70° over many parts of England, to 68° at Paris, 81° at Nice, and 86° at Rochefort. Succeeding night very cool over England and central France.

Barometer and Wind.

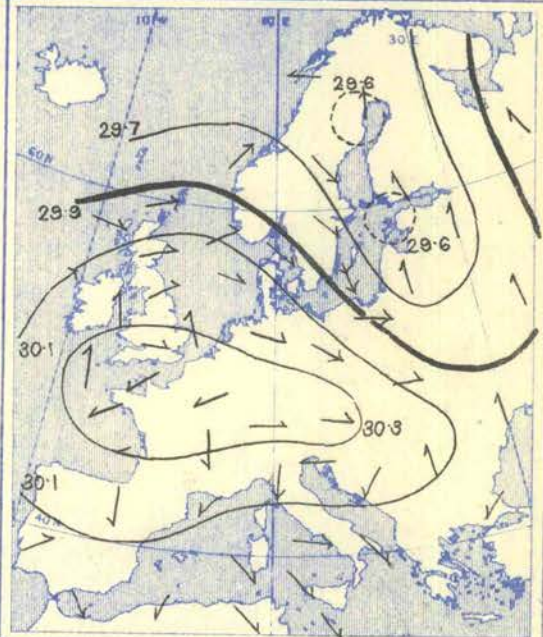
8 a.m.



Wind (1) light to moderate in force and anticyclonic in direction over western Europe and the British Islands; (2) cyclonic over northern Europe and the Baltic, and blowing a strong gale from North-West over Sweden, and from South-South-West over the Baltic Provinces of Russia, South-Easterly to Easterly over Finland.

Barometer highest, 30.3 ins. and more to 30.1 ins. in a large anticyclone covering Germany, France, nearly the whole of the British Islands and the North Sea. Lowest, (1) below 29.5 ins. in a depression lying over the Baltic and the Gulf of Bothnia; (2) below 29.9 ins. in another over south-eastern Europe, and in a third over the northern parts of the Mediterranean. Falling decidedly over the western parts of the British Islands later, but rising fast over Scandinavia.

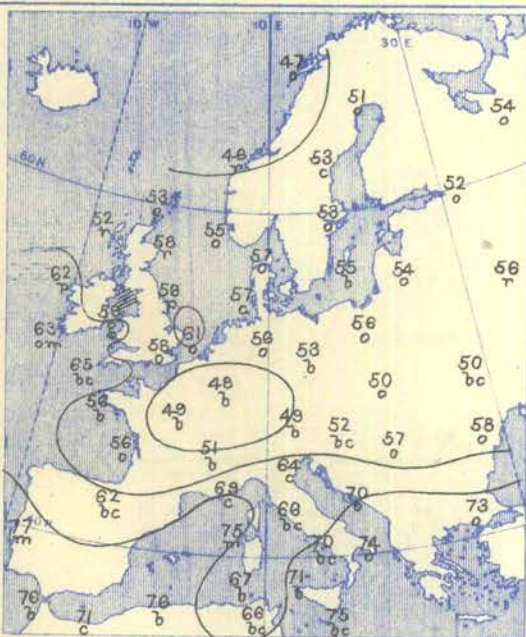
6 p.m.



Friday, 2nd September.

Temperature and Weather.

8 a.m.

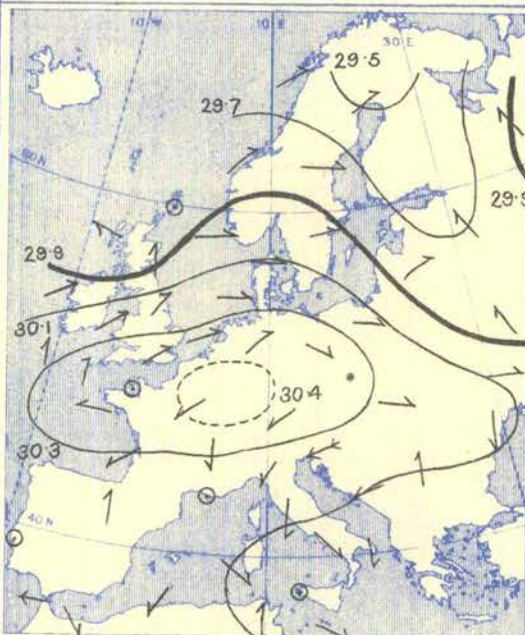


Weather in morning fine over southern, western and central Europe, including the southern half of England, changeable and unsettled over the more northern countries—especially Scandinavia, rain falling all over Scotland and in some parts of Ireland and Norway. The fall becoming considerable later in Norway and Denmark, and some parts of Germany, but comparatively slight over Scotland and Ireland; no rain over the southern parts either of our Islands or Europe.

Temperature changing irregularly, but rising fast over Ireland, falling over central Europe. Morning readings highest, 70° to 76° over the southern parts of the Mediterranean, 78° at Constantinople; 63° at the Irish stations and on the south-west coasts of England. Lowest, (1) 46° to 47° over the north-west of Norway, 51° at Uleaborg; (2) 53° to 55° over the greater part of Scotland, and 54° to 58° over the Baltic; (3) 48° at Wiesbaden and Belfort, 49° at Paris and Munich, 60° at Warsaw and Lemberg. Rising later to between 70° and 76° in many parts of our Islands, to 70° at Paris and 81° at Nice, 84° at Palermo, 86° at Sanguinaires, 88° Tunis; succeeding night warm over our Islands.

Barometer and Wind.

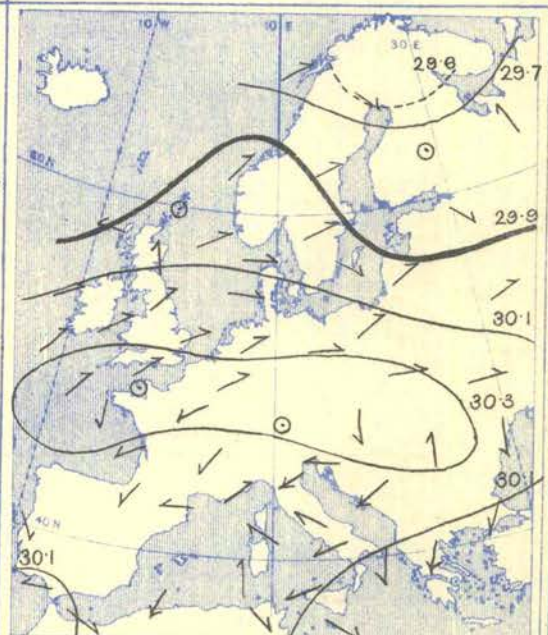
8 a.m.



Wind (1) light and anticyclonic over the western and central countries of Continental Europe, but (2) mainly South-Westerly to Westerly over the northern countries, and fresh to strong in force—very strong on the north-west coasts of our Islands, (3) Easterly over southern Europe and blowing hard at Trieste; Northerly to North-Westerly over Italy, Sardinia and Malta. Subsiding on our north-west coasts later.

Barometer highest, 30.4 ins. and more to 30.1 ins. in an anticyclone covering Germany, France, the Bay of Biscay, Ireland, England, and the southern half of the North Sea. Lowest, 29.5 ins. to 29.6 ins. over Lapland, and below 29.8 ins. in a new depression off the west of Scotland. Rising later over the western and northern parts of our area, falling over Germany, France, and the south-east of England.

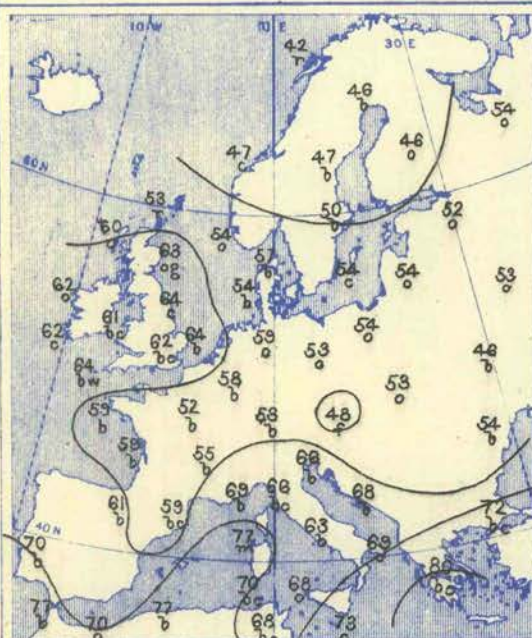
6 p.m.



Saturday, 3rd September.

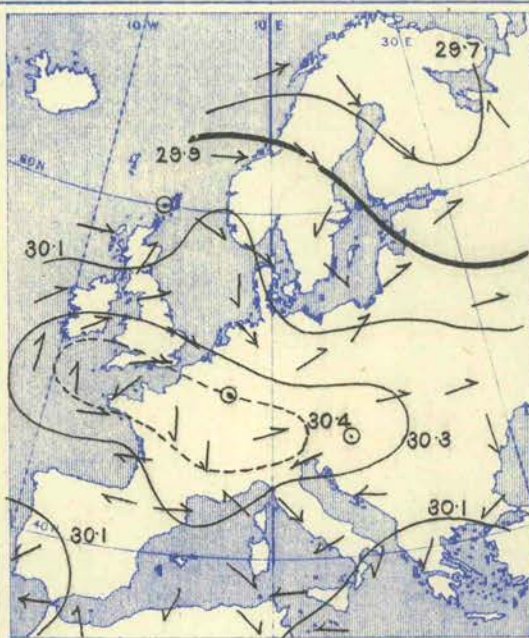
Temperature and Weather.

8 a.m.

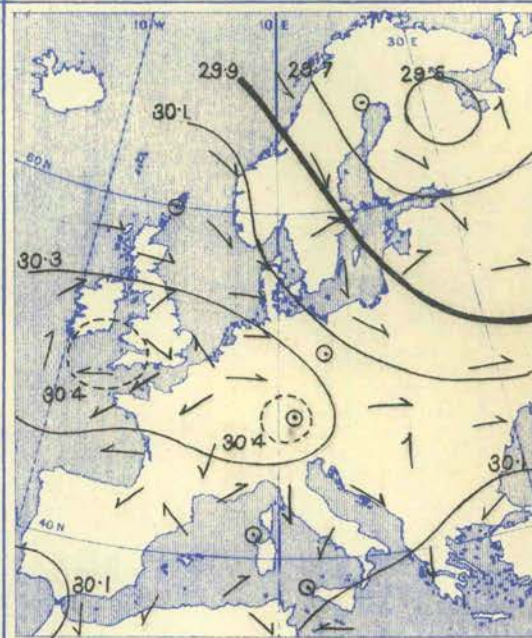


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the Mediterranean, France, England, Sweden, and the south of Russia, generally dull elsewhere, with rain in the north-west of Norway, at Sumburgh Head, and at Malin Head. Rain later in several parts of Scandinavia, the Shetlands, and in parts of north Germany, as well as in the Azores, but none reported over Ireland, Great Britain or France. Fog or haze reported in a few places.

Temperature in morning highest, 70° or more at most of the Mediterranean stations, 70° at Lisbon, 66° to 60° over the British Islands generally. Lowest, (1) 42° at Bodø, 46° at Haparanda, 50° at Karlstad and Stockholm, 52° at St. Petersburg; (2) 46° at Kieff, 49° at Kharkov, 48° at Vienna, 52° at Prague. Rising later to 81° at Aberdeen, 83° in London, and touching 81° at Nice and Perpignan and 93° at Rochefort, but not exceeding 77° at Paris and Brussels, or 68° at Berlin.

Wind very light and anticyclonic over the southern half of Continental Europe, including the south of England, South-Westerly over Ireland, Westerly over Scotland; Westerly to North-Westerly and strong over the north of Scandinavia, but Easterly over the Mediterranean. Very light all over our Islands in the evening, and moderating in Norway.

Barometer highest, 30.4 ins. and more to 30.2 ins. in an anticyclone covering the whole of Ireland, England, France, and Germany, with the greater part of the Mediterranean. Lowest, below 29.6 ins. over Lapland. Gradients slight except over the northern parts of Scandinavia. Rising all day over the northern regions, falling a little over Spain, France, and the south of England. Anticyclone spreading northwards.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: $\Rightarrow$ = a heavy gale; $\Rightarrow$ = a gale; $\Rightarrow$ = a fresh to strong breeze; $\Rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: —b— = blue sky; —c— = detached clouds; —o— = overcast; —m— = misty (hazy); —f— = foggy; —q— = squally; —r— = rain; —h— = hail; —s— = snow; —l— = lightning; and —t— = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this week barometric pressure was as a whole much higher over the south-western and central countries of Continental Europe than it was over the more northern districts, and towards the end of the week a new high pressure system coming in from the Atlantic occupied about the same position as that previously existing, and then spread northwards over the greater part of Ireland and England. In the meantime depressions were appearing in the west and north-west, and moving in a north-easterly or easterly direction, the most striking of these being one which reached the south-west of Scotland on Tuesday evening, and travelling at about 36 miles an hour, arrived over the Skager Rack and Denmark by 8 a.m. on Wednesday. Thus, while a great deal of rain has fallen over the north-western and northern parts of our area, the fall over the more central districts was comparatively slight. At about the commencement and middle part of the week, however, there were disturbances over the Mediterranean and southern Europe, causing considerable falls in those regions, but these had disappeared entirely towards the latter part of the period.

Temperature has not been nearly so high as in the preceding week. A South-Westerly to North-Westerly gale of considerable strength was felt over the British Islands and the North Sea on the night of the 30th, and over Denmark, Scandinavia, and the Baltic later on.

At the close of the week quiet fine weather was again spreading over our Islands from the southward, and temperature was rising decidedly.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 206.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	22.5	?	23	?	WESTBOURNE (Emsworth)	63.6*	+20.4	68*	+23
STRATHPEFFER SPA	22.2	-4.3	23	-3	WATERGATE (Emsworth)	57.1	?	61	?
EDINBURGH	21.3	-10.5	22	-9	BRIGHTON	61.7	+15.7	66	+19
MORPETH	23.2	?	24	?	EASTBOURNE	68.3	+26.4	73	+30
NEWCASTLE-ON-TYNE	32.7	?	34	?	VENTNOR HOSPITAL	62.0	?	66	?
OSWALDKIRK (Yorkshire)	33.0	+5.4	36	+7	SOUTHPORT	22.3	?	23	?
HOLLESLEY BAY	50.0	?	63	?	COLWYN BAY	39.1	?	41	?
SHEFFIELD	40.0	?	42	?	TENBY	52.1*	+10.9	55*	+13
WORKSOP	34.8	+4.3	37	+5	NEWQUAY	54.8	+11.8	59	+15
THURCASTON (Leicestershire)	44.2	?	47	?	TORQUAY	60.2*	+22.2	71*	+25
PLUMSTEAD COMMON	48.4	?	51	?	GUERNSEY	58.9*	+6.0	63*	+10
MARGATE	57.3	+17.8	61	+20					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C. ; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW ; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 36.]
Third Series.

WEEK ENDING SATURDAY, SEPTEMBER 10TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 9d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 212.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	86	42	69.0	53.7	61.0	8 above	Day-deg. 133	Day-deg. +55	Day-deg. 0	Day-deg. 0	Day-deg. 1715	Day-deg. +223	Day-deg. 395	Day-deg. -228
	1. SCOTLAND, EAST	83	45	73.6	55.0	63.9	10 above	153	+61	0	0	1994	+169	427	-222
	2. ENGLAND, N.E.	85	48	72.6	56.0	63.9	8 above	153	+52	0	0	2136	+201	333	-216
	3. ENGLAND, EAST	92	49	78.3	56.5	66.9	9 above	174	+62	0	0	2402	+151	410	-207
	4. MIDLAND COUNTIES	90	47	79.2	55.5	66.8	10 above	174	+64	0	0	2409	+157	404	-215
	5. ENGLAND SOUTH	91	54	77.7	61.0	69.0	10 above	189	+65	0	0	2651	+216	234	-243
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	81	43	69.8	56.5	62.8	8 above	146	+54	0	0	2126	+222	245	-217
	7. ENGLAND, N.W.	81	50	72.4	57.7	64.7	8 above	159	+52	0	0	2294	+227	215	-244
	8. ENGLAND, S.W.	87	44	74.1	57.5	65.0	7 above	161	+50	0	0	2524	+244	205	-156
	9. IRELAND, NORTH	86	45	70.3	55.9	62.8	8 above	146	+48	0	0	2229	+208	227	-168
	10. IRELAND, SOUTH	80	48	70.3	56.4	63.0	6 above	147	+39	0	0	2584	+304	165	-134
	—CHANNEL ISLANDS.	84	57	74.0	61.5	67.5	8 above	179	+53	0	0	2948	+396	55	-93

DISTRICTS. (See p. 212.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10ths of in. 5	10ths of in. 4 less	177	+14	37.8	+ 6.9	46	+23	50	+23	988	+111	29	+ 3
	1. SCOTLAND, EAST	2	2	4 less	134	+ 1	17.1	3.6	41	+11	45	+14	1091	+ 63	32	+ 2
	2. ENGLAND, N.E.	1	1	4 less	118*	- 7	13.4*	- 3.6	37	+10	41	+12	1017*	+ 20	31	+ 1
	3. ENGLAND, EAST	0	—	5 less	106	-15	12.8	- 4.0	59	+24	64	+27	1202	- 27	36	- 1
	4. MIDLAND COUNTIES	0	—	6 less	107	-12	12.8	- 5.6	54	+22	59	+25	1131	+ 52	35	+ 2
	5. ENGLAND, SOUTH	0	—	6 less	97	-17	11.6	- 6.4	64	+26	71	+29	1215	- 11	38	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	4	6 less	154	+14	27.2	- 3.6	35	+ 2	38	+ 5	1114	+ 70	35	+ 3
	7. ENGLAND, N.W.	2	2	6 less	130	+ 1	22.5	+ 0.8	37	+ 3	41	+ 5	1181	+114	36	+ 3
	8. ENGLAND, S.W.	0	—	8 less	115	-14	18.9	- 5.4	56	+16	62	+20	1374	+ 58	42	+ 2
	9. IRELAND, NORTH	4	9	1 more	164	+11	23.7	- 0.6	50	+23	55	+26	1051	+ 53	31	+ 1
	10. IRELAND, SOUTH	4	14	6 more	128	-10	24.1	- 1.5	50	+18	54	+20	1173	+ 46	35	+ 1
	— CHANNEL ISLANDS.	0	—	6 less	130	- 6	14.7	- 5.1	64	+20	70	+26	1561	+ 81	49	+ 3

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather was very fine in all parts of the Kingdom during the earlier half of the period, and this condition continued to prevail over England throughout the week. In Ireland, Scotland, and the north of Wales, however, the later days were unsettled and rainy. A brilliant display of aurora was observed on Friday night in nearly all parts of the country, and again at a few stations on Saturday night.

Temperature was unusually high for the time of year, the average for the week having been as much as 16° above the mean in England S., the Midland counties, and Scotland E., 9° in England E., and 8° in nearly all other districts. The highest of the maxima occurred early in the week over Ireland and Scotland, but on the 8th over England. They varied from 92° in England E., 91° in England S., and 90° in the Midland counties, to 81° in Scotland W. and England N.W., and to 80° in Ireland S. These values are higher than any registered in September—over Scotland since 1871, and over England since 1868. The lowest of the minima, which were recorded on very irregular dates, ranged from 42° in Scotland N. to 54° in England S., and to 57° in the Channel Islands. During the greater part of the week the minimum readings were very high in all districts, the thermometer at many stations not falling to 60°.

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Rainfall was much more than the mean in Ireland S., and slightly exceeded the normal in Ireland N.; in all other districts, however, it was less, and over the greater part of England rain was entirely absent.

Bright Sunshine exceeded the mean in all districts, the excess in almost all cases being large. The percentage of the possible duration ranged from 71 in England S., and 70 in the Channel Islands, to 41 in England N.W. and N.E., and 38 in Scotland W.

Barometer and Wind.—At the commencement of the week an anticyclone lay completely over our Islands, the winds being light from the Southward in the west and north, and from the Northward or North-Westward in the east. This system gradually moved away Eastwards and South-Eastwards, and depressions began to approach our western coasts from the Atlantic. They were, however, shallow, and the wind, which had shifted to the South-Westward or Southward very generally, was light or moderate in force. On Friday a shallow "V"-shaped disturbance moved eastwards directly over the Kingdom, but by the end of the period another anticyclone had appeared in the south, and the wind had veered to the Westward.

* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 211 has been calculated.

DISTRICTS	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	69	42	62.7	49.1	55.6	+ 4.4	95	0	4	0.31	- 0.49	*	*	*	*
	Stornoway	72	49	65.9	53.9	59.6	+ 7.7	123	0	4	0.19	- 0.72	46.7	+20.9	50	+23
	Wick	78	50	68.9	54.7	61.5	+ 8.8	137	0	2	0.26	- 0.34	*	*	*	*
	Laing	86	48	76.9	53.5	64.7	+11.8	159	0	3	0.36	- 0.26	*	*	*	*
	Glencarron	81	51	67.7	53.9	60.4	+ 7.8	129	0	5	1.64	+ 0.04	*	*	*	*
	Fort Augustus	81	52	71.9	56.9	64.0	+ 9.4	154	0	3	0.29	- 0.54	41.2	+23.6	44	+25
1. SCOTLAND, E.	Fort William															
	Nairn	83	51	74.7	55.4	64.6	+10.6	158	0	1	0.26	- 0.26	*	*	*	*
	Aberdeen	78	51	72.0	54.3	62.7	+ 8.8	145	0	1	0.07	- 0.55	46.0	+13.8	49	+15
	Braemar	80	45	71.0	53.5	61.8	+11.1	139	0	1	0.49	- 0.39	48.3†	+22.5†	52†	+24†
	Ochertyre	83	51	74.0	54.9	64.0	+ 9.7	154	0	2	0.40	- 0.34	*	*	*	*
	Leith	83	53	74.9	57.0	65.5	+ 9.7	165	0	2	0.11	- 0.39	*	*	*	*
2. ENGLAND, N.E.	Marchmont	82	45	75.1	54.9	64.5	+10.8	158	0	2	0.13	- 0.57	38.0	+ 6.7	41	- 9
	Alnwick Castle	81	50	72.5	53.5	62.5	+ 8.4	144	0	4	0.35	- 0.25	*	*	*	*
	Durham	85	48	74.5	56.0	64.8	+ 9.7	160	0	1	0.02	- 0.48	30.2	+ 0.2	33	+ 1
	Shields	77	51	71.4	57.4	64.1	+ 8.6	155	0	0	—	- 0.54	*	*	*	*
	Scarborough	80	53	72.6	54.9	63.3	+ 7.3	149	0	1	0.11	- 0.44	49.6	?	56	?
	York	81	52	76.7	55.9	65.8	+ 9.2	167	0	1	0.05	- 0.50	43.2	+13.3	74.7	+15
3. ENGLAND, E.	Spurn Head	75	55	68.1	58.0	62.8	+ 5.3	146	0	1	0.03	- 0.36	*	*	*	*
	Hillington	92	51	81.5	55.8	68.0	+10.8	182	0	0	—	- 0.57	62.1	+27.1	68	+30
	Yarmouth	78	53	69.3	59.3	64.1	+ 6.3	155	0	0	0.02†	- 0.53	*	*	*	*
	Geldeston	90	49	77.4	54.9	65.6	+ 8.0	165	0	0	—	- 0.50	56.2	+17.1	62	+20
	Cambridge	92	52	83.4	56.0	69.0	+10.9	189	0	0	—	- 0.48	68.7	+31.2	75	+35
	Rothamsted	89	54	79.7	56.6	67.6	+11.0	179	0	0	0.02†	- 0.53	58.5	+21.4	64	+24
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	84	50	79.6	54.1	66.2	+ 9.6	169	0	1	0.02	- 0.47	*	*	*	*
	Loughborough	90	52	81.7	55.7	68.1	+10.5	183	0	0	—	- 0.53	*	*	*	*
	Stamford (Duddington)	90	51	80.7	55.6	67.6	+ 9.8	179	0	0	—	- 0.56	*	*	*	*
	Cheadle	79	50	74.5	56.3	65.0	+10.3	161	0	1	0.05	- 0.52	*	*	*	*
	Shirley (near Solihull)	84	49	77.9	54.7	65.7	+ 8.5	166	0	0	—	?	*	*	*	*
	Churchstoke															
5. ENGLAND, S.	Hereford	85	47	79.2	54.5	66.3	+ 9.0	170	0	0	—	- 0.55	*	*	*	*
	Cirencester	87	48	79.0	55.7	66.8	+11.1	174	0	0	—	- 0.63	60.8	+24.5	67	+28
	Oxford	90	53	81.3	57.1	68.6	+10.7	186	0	0	—	- 0.52	58.3	+20.3	64	+24
	London	91	58	84.3	60.1	71.6	+12.1	207	0	0	—	- 0.50	52.3†	+18.3†	57†	+21†
	North Foreland	84	59	72.0	62.6	67.1	+ 8.4	176	0	0	—	?	*	*	*	*
	Cranley	86	54	82.0	61.9	71.5	+12.8	207	0	0	—	?	*	*	*	*
6. SCOTLAND, W.	Dungeness	78	55	72.3	61.3	66.5	+ 6.9	172	0	0	—	- 0.50	*	*	*	*
	Hastings (St. Leonards)	80	59	76.6	62.0	69.0	+ 9.7	189	0	0	—	- 0.53	73.8	+31.8	81	+36
	Southampton	85	55	80.8	58.2	69.0	+ 9.7	189	0	0	—	- 0.60	68.1	+35.1	75	+30
	Hurst Castle	78	56	75.7	61.0	68.0	+ 8.2	182	0	0	—	- 0.58	*	*	*	*
	Shaftesbury	84	?	79.1	?	?	?	?	0	0	—	- 0.70	*	*	*	*
7. ENGLAND, N.W.	Landale (Loch Sunart)	78	51	70.9	58.1	64.2	+ 9.6	155	0	5	1.23	- 0.17	*	*	*	*
	Glasgow	78	54	70.2	57.6	63.6	+ 9.3	151	0	2	0.37	- 0.53	29.2	+ 1.5	32	+ 4
	Ardrossan	77	54	69.1	58.1	63.3	+ 7.6	149	0	1	0.50	- 0.33	*	*	*	*
	Glenlee	76	43	70.9	51.9	60.9	+ 6.8	132	0	3	0.18	- 0.87	*	*	*	*
	Gilcrux (Cumberland)	81	53	71.0	58.3	64.4	+10.0	157	0	4	0.10	?	35.9	?	39	?
	Douglas (Isle of Man)	74	50	66.9	54.1	60.2	+ 5.4	127	0	3	0.20	- 0.67	39.4	+ 4.1	43	+ 6
8. ENGLAND, S.W.	Stonyhurst	77	52	72.5	58.1	65.0	+ 9.5	161	0	2	0.04	- 1.11	37.1	+ 6.1	40	+ 7
	Blackpool	80	51	72.6	57.4	64.6	+ 7.8	158	0	1	0.05	- 0.72	27.8	- 4.1	30	- 3
	Manchester (Prestwich)	81	50	75.4	57.5	66.0	+10.1	168	0	2	0.12	- 0.72	37.9	?	41	?
	Liverpool Obsy. (Bidston)	79	54	72.6	58.9	65.4	+ 8.0	164	0	3	0.16	- 0.49	*	*	*	*
	Llandudno	81	54	72.1	58.0	64.7	+ 7.0	159	0	1	0.20	- 0.43	40.8	+ 9.3	44	+11
	Holyhead	77	52	69.0	50.1	62.2	+ 4.7	141	0	4	0.68	- 0.04	*	*	*	*
9. IRELAND N.	Llandovery	84	44	78.4	54.0	65.6	+ 8.7	165	0	0	—	- 1.00	*	*	*	*
	Pembroke	71	54	65.4	58.6	61.8	+ 4.3	139	0	0	—	- 0.68	40.3	+ 0.4	44	+ 3
	Clifton	87	?	80.5	?	?	?	?	0	0	—	- 0.72	*	*	*	*
	Arlington (N. Devon)	78	49	74.4	55.9	64.7	+ 8.4	159	0	1	0.02	- 1.06	*	*	*	*
	Cullompton	83	48	79.7	54.7	66.6	+ 8.8	172	0	0	—	- 0.64	59.1	+21.1	65	+25
	Falmouth	71	55	69.0	58.8	63.7	+ 5.6	152	0	0	—	- 0.90	57.4	+15.4	63	+19
10 IRELAND S.	Plymouth	77	50	74.8	60.5	66.8	+ 8.0	174	0	0	—	- 0.68	60.3	+20.4	66	+24
	Prawle Point	75	54	71.6	59.9	65.5	+ 7.5	165	0	0	—	- 0.50	*	*	*	*
	Malin Head	78	55	69.0	58.7	63.6	+ 7.8	151	0	4	0.39	?	*	*	*	*
	Londonderry	86	51	75.0	56.3	65.2	+ 9.6	162	0	5	0.80	- 0.02	*	*	*	*
	Edenfel (Omagh)	80	50	70.9	55.6	62.9	+ 9.1	146	0	3	1.34	+ 0.55	*	*	*	*
	Belmullet	78	49	67.9	55.3	61.3	+ 4.7	135	0	3	0.44	- 0.50	*	*	*	*
CHANNEL ISLANDS	Markree Castle	77	45	71.2	54.1	62.2	+ 7.8	141	0	4	0.65	- 0.23	53.9	+27.0	59	+31
	Armagh	78	52	71.6	57.2	64.1	+ 9.5	155	0	4	1.37	+ 0.72	46.1	+19.5	50	+21
	Donaghadee	69	49	66.3	54.3	60.0	+ 4.5	126	0	4	0.58	- 0.09	*	*	*	*
	Edgeworthstown	?	?	?	?	?	?	?	?	5	1.30	+ 0.63	*	*	*	*
	Dublin	78	54	71.9	57.5	64.4	+ 7.6	157	0	4	0.61	+ 0.11	55.1	+21.0	60	+24
	Parsonstown	79	51	72.1	56.7	64.0	+ 8.4	154	0	4	1.46	+ 0.81	52.7	+24.5	57	+26
CHANNEL ISLANDS	Kilkenny	75	48	71.0	53.0	61.6	+ 4.7	137	0	2	0.85	+ 0.68	*	*	*	*
	Roche's Point	70	52	67.4	58.3	62.6	+ 5.4	144	0	2	0.99	+ 0.10	*	*	*	*
	Valencia	79	55	69.0	58.6	63.6	+ 6.0	151	0	4	1.64	+ 0.54	42.0	+ 9.2	46	+11
	Killarney	80	49	70.7	55.2	62.6	+ 5.3	144	0	5	2.48	?	*	*	*	*
	Foynes	78	52	70.1	55.2	62.2	+ 5.5	141	0	5	1.62	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	71	57	70.0	60.4	65.0	+ 6.2	161	0	0	—	- 0.65	49.5	?	54	?
	Jersey	84	59	77.9	62.6	69.9	+ 8.9	195	0	0	10.01	- 0.57	67.8	+16.6	75	+22

* An Asterisk is inserted in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

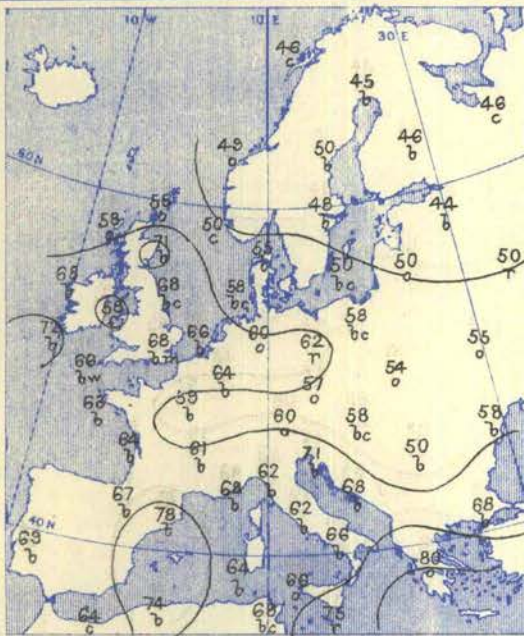
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

‡ Fog or Dew.

Sunday, 4th September.

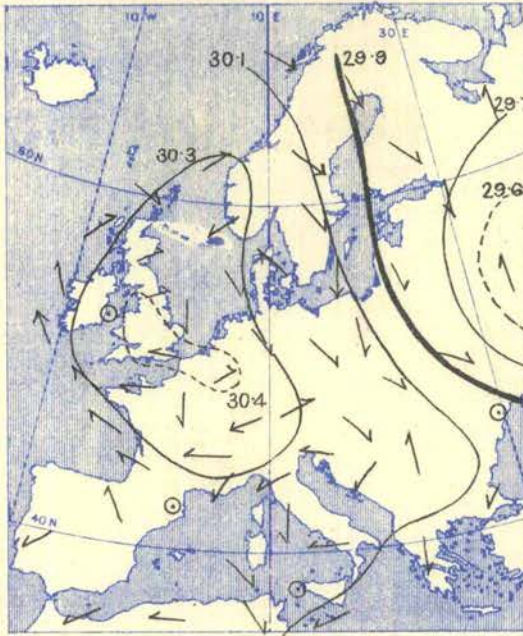
Temperature and Weather.

8 a.m.

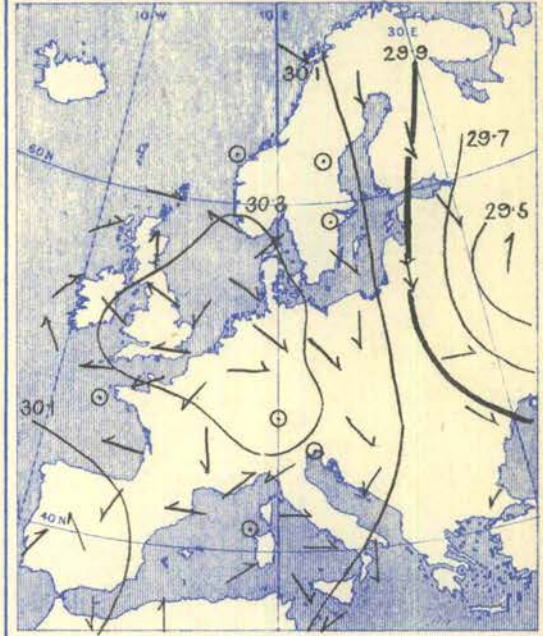


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but foggy over central England, as well as at Ardrossan and Holyhead. Dull over Germany and the western and central parts of Russia, with rain in several places. Rain falling later in the west of Norway, as well as over central and southern Russia, and the neighbouring parts of Austria.

Temperature risen in France, Germany and Austria, changed irregularly elsewhere. Morning readings highest, 83° at Bilbao, 80° at Patras, 78° at Barcelona, and 75° at Malta; above 65° in many parts of the United Kingdom, and touching 71° at Aberdeen, and 72° at Valencia (Ireland). Lowest, 44° at St. Petersburg, 45° at Helsingfors, and 46° at several other stations in Scandinavia and northern Russia. Rising during day to 80° and upwards in several parts of Great Britain, to 83° at Nairn and Oxford, and to 86° in London. Exceeding 90° at some of the French and Spanish stations, and reaching 93° at Cape Bearn and Madrid.

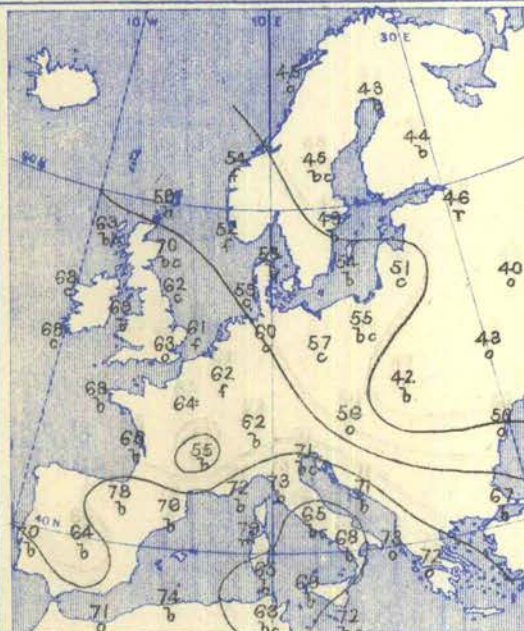
Wind light to moderate from the Eastward or North-Eastward over Italy, France and the south of England, from the South-Eastward in Ireland, and from the South-Westward or Westward in Scotland. Northerly or North-Westerly over Scandinavia, Denmark, Finland and the Baltic provinces, and strong in force at Bodö, Helsingfors and Wisby; light from the North-Westward or Westward in Germany and Austria. No important change occurring later, but wind falling calm in Sweden.

Barometer highest, 30.4 ins. and upwards over England and Belgium; highest, 30.1 ins. and upwards in an anticyclone covering nearly the whole of western, central and southern Europe. Lowest, 29.6 ins. and less in a well-marked depression over central Russia. No important change occurring during day, but Russian depression becoming somewhat deeper.

Monday, 5th September.

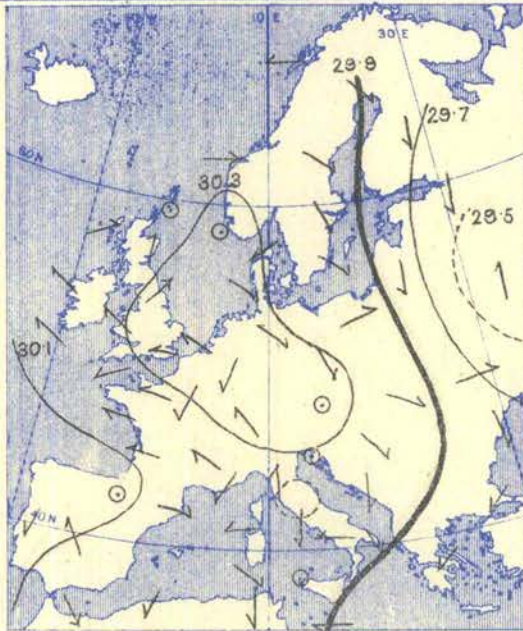
Temperature and Weather.

8 a.m.

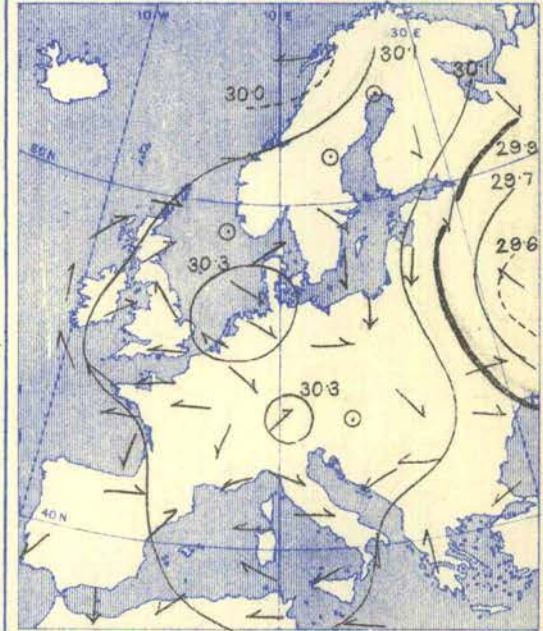


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but foggy on the east coasts of England, and also in the west of Norway. Dull in Germany, as well as in the central parts of Russia, with rain at St. Petersburg. Rain falling later in the west of Norway, but weather remaining dry in all other parts of western Europe; much fog reported on the east and south-east coasts of England.

Temperature risen in France, and fallen in the Netherlands, Germany, and Austria, but changed very irregularly elsewhere. Morning readings highest, 79° at Sanguinaire, 78° at Biarritz, 76° at Barcelona, and 74° at Algiers; above 70° at the Mediterranean and Adriatic stations generally; just touching that point at Aberdeen; above 65° in many parts of the United Kingdom. Lowest, 46° at Moscow and Kharkov, 42° at Lemberg, and 43° at Uleaborg and Kiev. Rising during day to between 75° and 80° in nearly all parts of the United Kingdom, to 82° at Cambridge, and to 83° at Nairn and Loughborough. Exceeding 85° in many parts of southern Europe, and exceeding 90° in the west of France, the highest reading of all being 96° at Bordeaux.

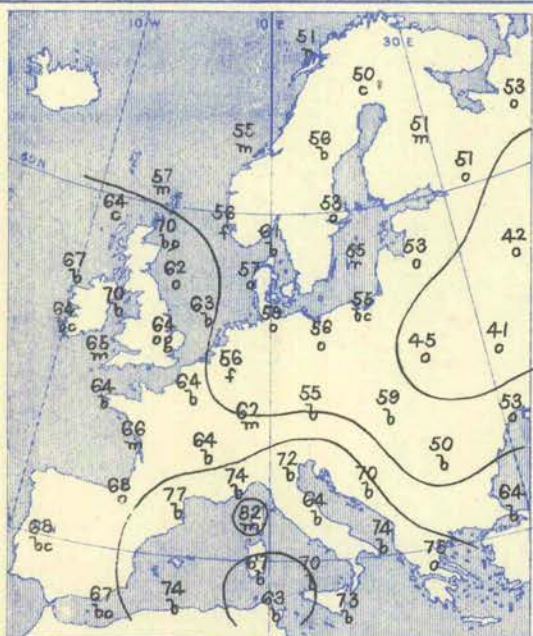
Wind light from the Eastward over France, the Netherlands, and the southern parts of the United Kingdom, but from the Southward or South-Westward on our northern coasts. Northerly or North-Westerly over Sweden, Denmark, and the western and southern parts of Russia; light and variable over the greater part of central and southern Europe. No important change occurring during day.

Barometer highest, 30.3 ins. and upwards over the North Sea, Germany, the Netherlands, and the eastern and central parts of England; 30.1 ins. and upwards in a large anticyclone embracing all but the eastern parts of the Continent. Lowest, 29.5 ins. and less in a well-marked depression over central Russia. Anticyclone moving slowly eastwards during day and barometer falling in all parts of western Europe.

Tuesday, 6th September.

Temperature and Weather.

8 a.m.

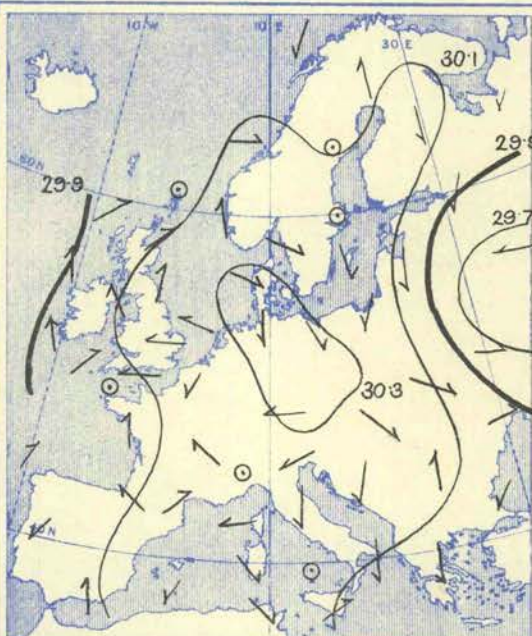


Weather in morning fine over Europe as a whole, but with mist or fog in several of the north-western countries; dull over northern and central England. Dull also over Russia, north Germany, and the Baltic, with rain at Wisby and Nicolaieff. A little rain falling later at most of the Irish stations, and also over the northern parts of Scandinavia and the south of Russia; weather remaining very dry in all other parts of Europe.

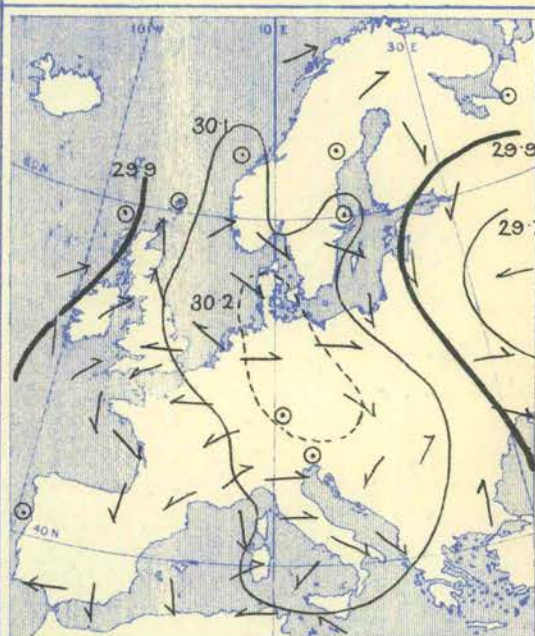
Temperature changed very irregularly in the western and southern countries, but fallen in Germany, and risen in Russia and Scandinavia. Morning readings highest, (1) 82° at Sanguinaire, 77° at Barcelona, and 75° at Patras; (2) 74° at Jersey; (3) 70° at Aberdeen and Holyhead; above 65° at many of our own western, northern, and southern stations. Lowest, 41° at Kiev, 42° at Moscow, 43° at Kharkov, and 45° at Lemberg. Rising during day to 80° and upwards in many parts of Great Britain, and to 83° at Leith, Jersey, and Cambridge; exceeding 85° at some of the central and southern stations in France, Spain, and Italy, and reaching 94° at Limoges.

Barometer and Wind.

8 a.m.



6 p.m.

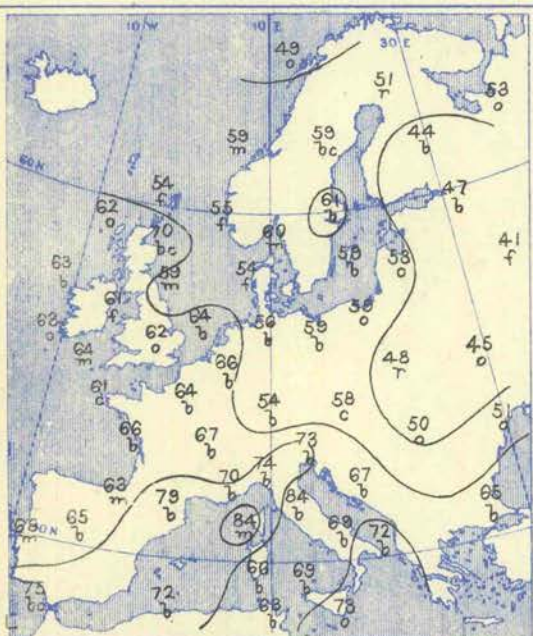


Wind light from the Eastward or South-Eastward over the greater part of England, France, the Netherlands, and western Germany; moderate to fresh from the South-Eastward or Southward in Ireland; light from South or South-West in Scotland. Variable in Scandinavia; Northerly or North-Westerly over the greater part of central Europe and also in Italy, but Southerly or South-Westerly in the south of Russia. Subsequently veering to the South-Westward at some of the Irish stations; no important change occurring elsewhere. Barometer highest, 30.3 ins. and upwards over Germany and the south of Denmark; 30.1 ins. and upwards in an anticyclone embracing the greater part of Europe. Lowest, 29.7 ins. and less in a well-marked depression over central Russia; 29.9 ins. and less in a shallow area off the west of Ireland. Anticyclone moving slowly eastwards during day, and barometer falling in all parts of western Europe; low pressure system off our western coasts travelling northwards.

Wednesday, 7th September.

Temperature and Weather.

8 a.m.

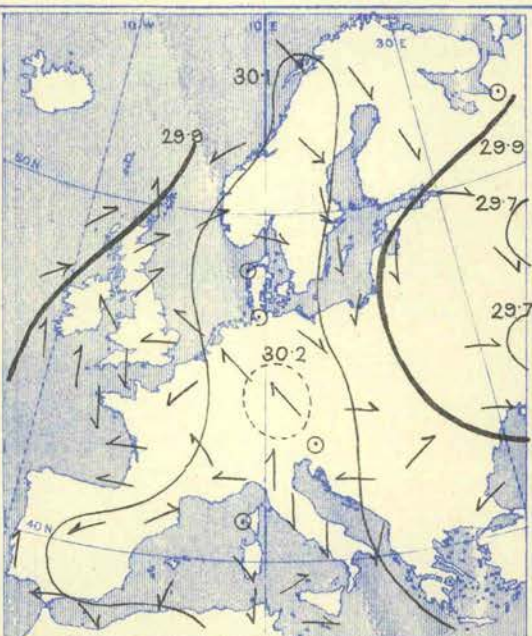


Weather in morning fair or fine over Europe as a whole, but with fog or mist in many parts of our Islands, as well as in Norway and Denmark. Cloudy in Ireland and the west of Scotland, with rain at Donaghadee and Parsonstown; dull also at many of the Russian stations, and raining at Uleaborg, Kharkov, Nicolaieff, and Lemberg. Considerable quantities of rain falling later in the west and south of Ireland, and slight showers at several of our northern stations, with thunderstorms at Shields and Valencia (Ireland). Lightning seen in the north of Scotland at night.

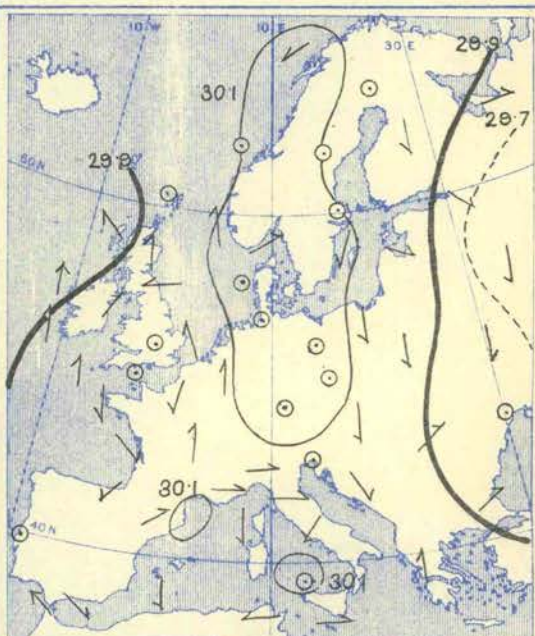
Temperature fallen in most parts of north-western Europe, risen in Sweden and Germany, changed irregularly elsewhere. Morning readings highest, 84° at Bilbao and Sanguinaire, 79° at Barcelona, and 75° at Toulon and San Fernando; above 65° in many parts of Great Britain, and touching 70° at Aberdeen. Lowest, 41° at Moscow, 44° at Kuopio and Kharkov, and 45° at Kiev. Rising during day to 85° and upwards in several parts of England, and to 87° in London and at Cambridge. Exceeding 90° at some of the French stations, and reaching 96° at Bordeaux.

Barometer and Wind.

8 a.m.



6 p.m.

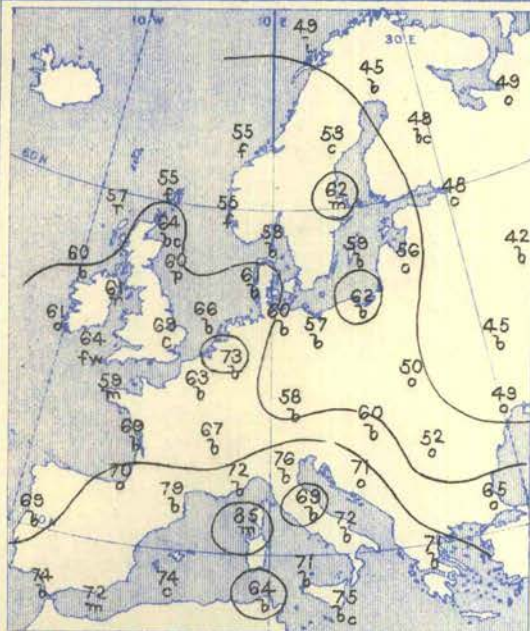


Wind light from the Eastward (North-East to South-East) over England, France, and Belgium, but Southerly or South-Westerly over Ireland and Scotland, and fresh in force at Belmullet. Variable in the west of Norway, Northerly or North-Westerly over Sweden, Denmark, eastern Germany, and the greater part of Russia. Variable over Italy, the Spanish Peninsula, and the extreme south of France. Subsequently shifting to the Northward in the west of France; no important change occurring elsewhere. Barometer highest, 30.2 ins. and upwards over south Germany; 30.0 ins. and upwards in an anticyclone embracing all but the eastern and extreme north-western parts of Europe. Lowest, 29.7 ins. and less in a shallow depression over the southern parts of Russia; 29.9 ins. and less in another shallow system lying off our own extreme north-west coasts. No important change occurring later, but barometer falling in most parts of western Europe.

Thursday, 8th September.

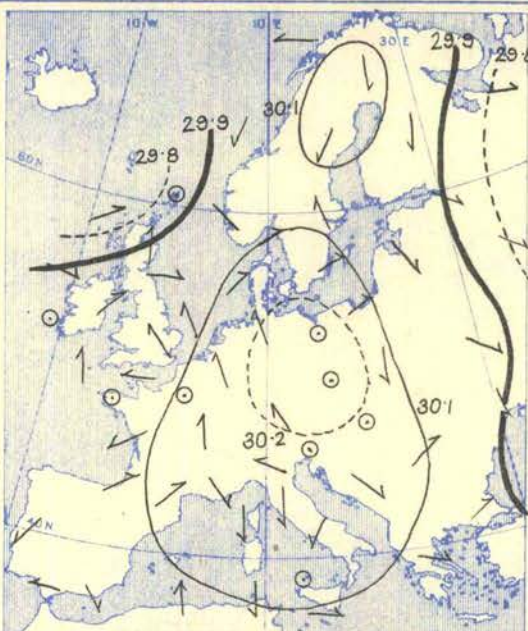
Temperature and Weather.

8 a.m.

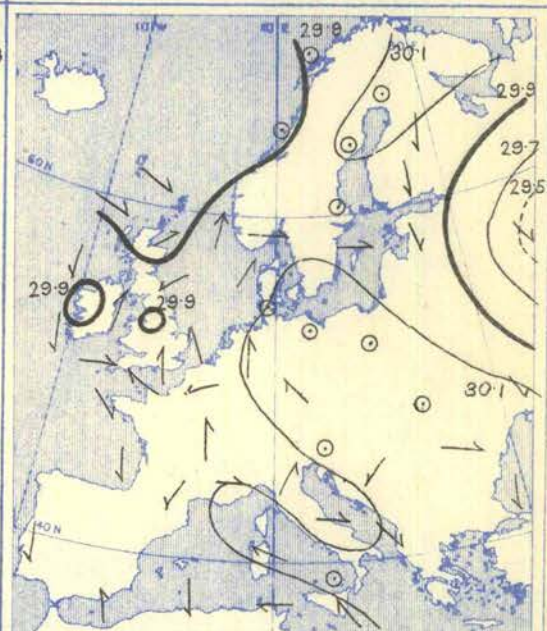


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the south and east of England, as well as at most of the Continental stations, but foggy on the Norwegian coasts, and dull in the west and south of Russia. Cloudy or dull in the west and north of our Islands, with fog at the mouths of the Bristol and English Channels, and rain at Sumburgh Head and Donaghadee. Heavy rain falling later in the south of Ireland, and smaller quantities at most of our northern stations, with thunder in places. Thunderstorm occurring at Nemours, and thunder only at Fanö.

Temperature fallen in Ireland, Scotland, and Scandinavia, but risen in most other countries. Morning readings highest, (1) 85° at Sanguinaire, 79° at Barcelona, and 75° at Malta; (2) 75° at Cape Gris Nez, 73° at Brussels, and 72° at Oxford and the North Foreland; ranging between 65° and 70° in most parts of England. Lowest, 41° at Kharkov, 42° at Moscow, and 45° at Haparanda, Uleaborg, and Kiev. Daily maxima below 70° on most parts of our western and extreme northern coasts, but thermometer reaching 90° or more in several parts of England, and touching 92° at Cambridge. Exceeding 90° also at many of the French stations, and touching 96° at Bordeaux and Limoges.

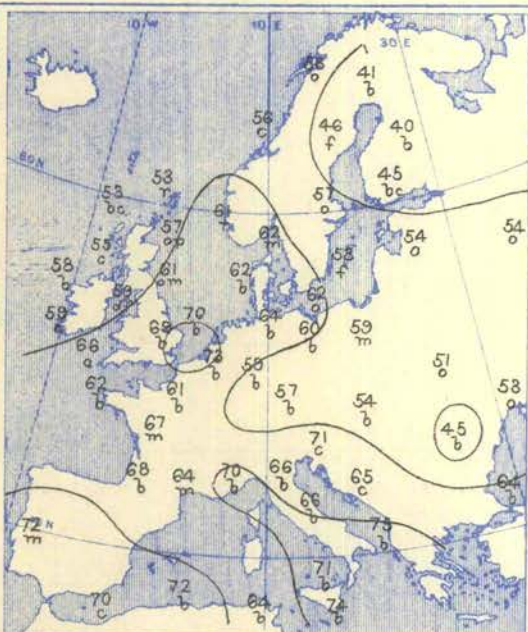
Wind light from the Southward or South-Westward on our western and northern coasts, and from the South-Eastward or Eastward in the west of Norway. South-Easterly over England and the Netherlands, and Easterly in the west of France, but very variable over central and southern Europe generally. Northerly or North-Westerly over Russia and the northern parts of Sweden; South-Westerly in Denmark and the south of Sweden. Subsequently veering to the Southward over England, but shifting to the Northward in the west of Ireland.

Barometer highest, 30.2 ins. and upwards over the eastern and southern parts of Germany; 30.0 ins. and upwards in an anticyclone embracing all but the most eastern and western parts of Europe. Lowest, 29.8 ins. and less in a shallow depression off the north of Scotland, and also in a large area over northern and central Russia. Barometer falling during day at all but our northern stations, and shallow secondary disturbance appearing over the south of Ireland.

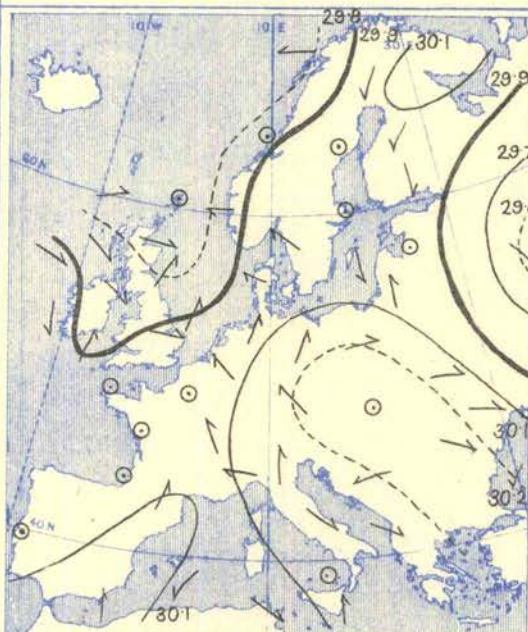
Friday, 9th September.

Temperature and Weather.

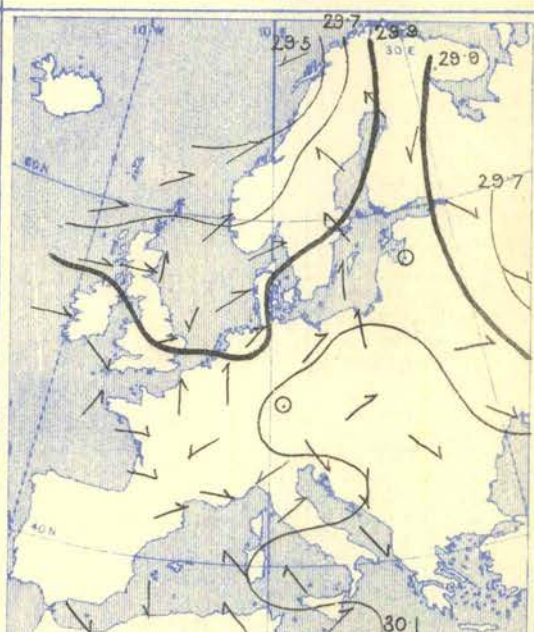
8 a.m.



8 a.m.



6 p.m.



Weather in morning fine in the east and south-east of England, and also over the greater part of the Continent, but foggy at many of the Scandinavian stations. Cloudy or dull in the west and north of our Islands generally, with rain in the north and east of Scotland, and also at Skudesnes and Parsonstown. Rain falling later at several of our own northern stations, as well as in Scandinavia, but amount mostly slight. Bright aurora seen at night in many parts of the United Kingdom, and also at Lyons.

Temperature fallen over the greater part of our Islands, France, and Italy, as well as in Sweden and Finland, risen in most other localities. Morning readings highest, (1) 79° at Barcelona, 77° at Sanguinaire, and 75° at Brindisi; (2) 76° at Cape Gris Nez, and 74° at the North Foreland; above 65° in the south and east of England generally. Lowest, 40° at Knopio, 41° at Haparanda, and 44° at Helsingfors; lowest in our Islands, 53° at Sumburgh Head and Stornoway. Rising during day to 80° and upwards over the east and south-east of England, and to 88° in London; exceeding 90° at some of the French stations, and touching 93° at Clermont and Cape Béarn, and 95° at Limoges.

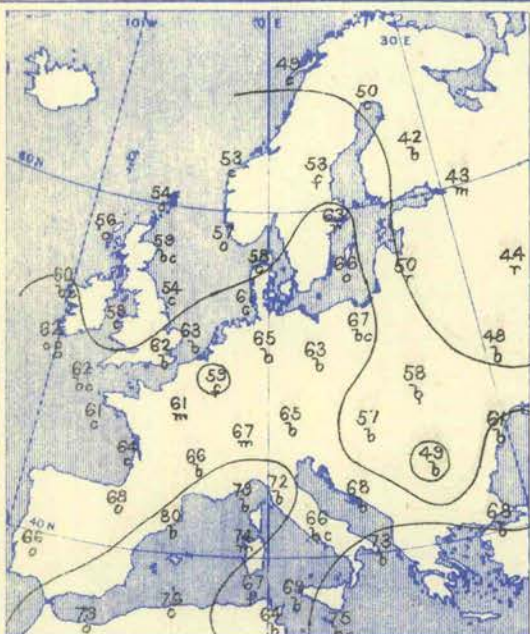
Wind light from the South-Westward over the greater part of England, and from the Southward or South-Eastward over Germany and the eastern shores of the North Sea, but calm or Westerly in Scotland, and North-Westerly in Ireland. Calm or variable over France, Spain and Austria, but chiefly North-Westerly in Italy. Cyclonic circulation of very light breezes reported over Russia. Westerly breezes setting in later over the Bay of Biscay; no important change occurring elsewhere.

Barometer highest, 30.2 ins. and upwards over Turkey, Austria and south Germany; 30.1 ins. and upwards in an anticyclone covering the greater part of central and southern Europe. Lowest, 29.6 ins. and less in a depression over central Russia; 29.8 ins. and less in a shallow disturbance lying over and to the northward of Scotland; 29.9 ins. and less in a secondary system at the mouth of the St. George's Channel. Secondary depression subsequently moving eastwards across England, and barometer rising on all our western and southern coasts.

Saturday, 10th September.

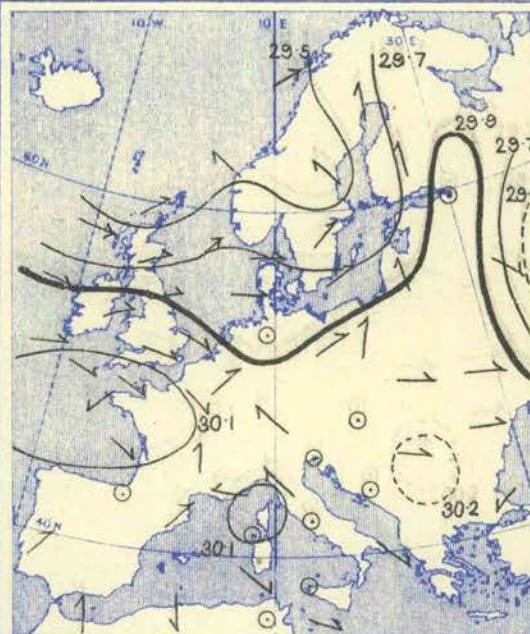
Temperature and Weather.

8 a.m.

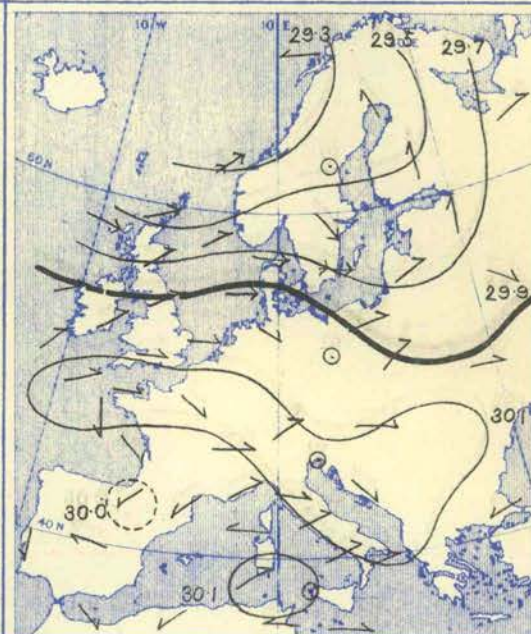


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of our Islands and the Continent, but foggy or misty over Belgium and the north of France; cloudy at several of the Russian and Scandinavian stations, with rain at Stockholm, Riga, and Moscow. A little rain falling later in Ireland, the north-west of England, and the west and north of Scotland. Aurora seen at Wick and Scilly.

Temperature risen in Ireland and the north of Scotland, as well as in Sweden and northern Russia; changed irregularly elsewhere. Morning readings highest, 80° at Barcelona, 76° at Algiers, 75° at Malta, and 74° at Toulon and Sanguinaire; above 70° at most of the Mediterranean and Adriatic stations. Lowest, 42° at Uleaborg and Kuopio, 43° at St. Petersburg, and 44° at Moscow. Rising during day to 70° and upwards over the central and southern parts of England, and to 74° at Cambridge. Exceeding 80° over Germany and the southern parts of France, and reaching 91° at Lyons.

Wind light to fresh from the Westward or South-Westward over the northern parts of our Islands, as well as in Denmark and the south of Scandinavia; Southerly or South-Easterly over the northern parts of Russia and Scandinavia. Light from the North-Westward over the south of England and the north of France. Variable over southern Europe generally. Subsequently backing to the South-Westward in the south of England; no important change occurring elsewhere.

Barometer highest, 30.26 ins. at Hermanstadt; 30.0 ins. and upwards in an anticyclone lying over central and southern Europe generally, and extending over the southern parts of England and Ireland. Lowest, 29.5 ins. and less in a large depression lying to the northward of our Islands, and also in a secondary system over the central parts of Scandinavia; 29.6 ins. and less in another disturbance over central Russia. Depression in north subsequently moving eastwards, but further secondary systems beginning to approach our western coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: — = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

Early in the week the weather in all but the eastern parts of Europe was influenced by a large anticyclone, the central portion of which lay at first over England and afterwards over the North Sea and Germany. Over the southern half of western Europe the winds were therefore Easterly, while in the northern parts it was Southerly or South-Westerly, the weather being generally fine and warm, but with fog or mist in places. Over Great Britain the thermometer was exceedingly high, the daily maxima in Scotland between the 4th and 6th being in many cases the highest recorded in any September since at least the year 1871. Over eastern Europe the weather was affected by a well-marked depression over central Russia; rain being reported in many parts of that country, and also in eastern Germany.

Towards the middle of the week the anticyclone moved eastwards, while depressions began to travel northwards along our extreme western coasts, so that the weather in Ireland and Scotland became cooler and less settled, with rain in many places. Over England, however, the thermometer continued to rise, and on the 8th reached a maximum of 90° or slightly above it in many places, the readings being several degrees higher than in any September since 1868. A depression was at this time remaining almost stationary off our northern coasts, and later on shallow secondary systems advanced eastwards directly across the Kingdom, further showers being reported in many of the northern Districts, but an almost entire absence of rain in the south. The West and North-West winds which set in in the rear of these disturbances were, however, attended by cooler weather, and in some parts of England the maximum temperatures on the 10th were nearly 20° lower than those of the 8th. Bright Aurora was seen in most parts of the United Kingdom on the 9th, and again in some places on the 10th.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 212.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	48.7	?	52	?	WESTBOURNE (Emsworth)	76.1*	+34.7	84*	+4
STRATHPEFFER SPA	48.6	+21.3	52	+25	WATERGATE (Emsworth)	64.2	?	71	
EDINBURGH	33.1	+3.3	36	+6	BRIGHTON	60.7	+16.6	67	+21
MORPETH	30.5	?	33	?	EASTBOURNE	73.4	+33.1	81	+38
NEWCASTLE-ON-TYNE	27.1	?	29	?	VENTNOR HOSPITAL	63.2	?	69	
OSWALDKIRK (Yorkshire)	43.8	+16.2	48	+19	SOUTHPORT	35.7	?	39	
HOLLESLEY BAY	47.7	?	52	?	COLWYN BAY	44.8	?	49	
SHEFFIELD	45.1	?	49	?	TENBY	40.8*	+10.1	55*	+13
WORKSOP	50.2	+20.8	55	+23	NEWQUAY				
THURCASTON (Leicestershire)	54.0	+21.4	59	+25	TORQUAY	63.7*	+21.7	70*	+25
PLUMSTEAD COMMON	54.7	?	60	?	GUERNSEY	73.3*	+23.3	81*	+30
MARGATE	55.0	+17.2	60	+20					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 37.]
Third Series.

WEEK ENDING SATURDAY, SEPTEMBER 17TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 218.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
								For the Week.				From January 2nd, 1898.			
		Highest.	Lowest.	Averages of											Above 42°
		Daily Maxima.	Daily Minima.	Daily Mean.		Day-deg. 96	Day-deg. +23	Day-deg. 0	Day-deg. - 1	Day-deg. 1812*	Day-deg. +247	Day-deg. 395	Day-deg. -229		
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	78	42	62.3	49.2	55.7	4 above	111	+25	0	- 1	2105	+194	427	-223
	1. SCOTLAND, EAST -	83	43	67.0	49.7	57.9	5 above	140	+44	0	0	2276	+245	333	-216
	2. ENGLAND, N.E. -	84	47	70.4	54.4	62.0	7 above	151	+45	0	0	2553	+196	410	-207
	3. ENGLAND, EAST -	90	43	75.4	52.7	63.5	7 above	143	+39	0	0	2552	+196	404	-215
	4. MIDLAND COUNTIES -	88	44	73.9	51.9	62.4	7 above	156	+38	0	0	2807	+254	234	-243
5. ENGLAND SOUTH -	88	46	73.3	56.2	64.3	7 above									
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	73	47	65.1	54.2	59.4	6 above	122	+35	0	0	2248	+257	245	-217
	7. ENGLAND, N.W. -	81	49	68.9	55.8	62.0	6 above	140	+39	0	0	2434	+266	215	-244
	8. ENGLAND, S.W. -	82	47	68.9	55.3	61.8	5 above	139	+33	0	0	2603	+277	205	-156
	9. IRELAND, NORTH -	77	47	66.0	55.0	60.3	6 above	128	+37	0	0	2357	+245	227	-168
	10. IRELAND, SOUTH -	73	44	67.1	56.6	61.6	6 above	137	+34	0	0	2721	+338	165	-134
	-CHANNEL ISLANDS.-	80	50	70.0	57.1	63.2	4 above	148	+27	0	0	3006	+423	55	- 93

DISTRICTS. (See p. 218.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
		10ths of in.	10ths of in.			Ins.	Ins.									
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	6	13	3 more	183	+16	39.2*	+ 7.3	29	+ 5	32	+ 7	1015*	+115	29	+ 4
	1. SCOTLAND, EAST -	4	4	3 less	138	+ 1	17.5	- 3.9	33	+ 5	37	+ 7	1124	+ 68	33	+ 3
	2. ENGLAND, N.E. -	2	1	5 less	120	- 7	13.5	- 4.0	31	+ 5	35	+ 6	1048	+ 25	31	+ 1
	3. ENGLAND, EAST -	0	—	6 less	106	-17	12.8	- 4.6	60	+24	69	+30	1262	- 3	37	0
	4. MIDLAND COUNTIES -	1	1	6 less	108	-13	12.9	- 6.1	45	+15	51	+18	1176	+ 67	35	+ 2
5. ENGLAND, SOUTH -	1	less than ½	6 less	98	-18	11.6	- 7.1	53	+16	60	+20	1268	+ 5	39	+ 1	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	5	9	2 less	159	+16	28.1	- 3.8	27	- 5	31	- 5	1141	+ 65	34	+ 2
	7. ENGLAND, N.W. -	3	4	4 less	133	+ 1	22.9	+ 0.4	33	0	38	0	1214	+114	36	+ 3
	8. ENGLAND, S.W. -	3	4	4 less	118	-14	19.3	- 5.9	39	+ 1	44	+ 2	1413	+ 59	42	+ 2
	9. IRELAND, NORTH -	4	6	2 less	168	+12	24.3	- 0.8	20	- 6	23	- 6	1071	+ 47	31	+ 1
	10. IRELAND, SOUTH -	4	5	2 less	132	- 9	24.6	- 1.7	25	- 6	28	- 7	1198	+ 39	35	+ 1
	- CHANNEL ISLANDS.-	5	6	1 less	135	- 3	15.3	- 5.2	51	+ 9	58	+15	1612	+ 91	49	+ 3

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather continued unsettled, with occasional rain in the extreme west and north, but over the greater part of England it was again fine, and in most places bright and very warm. By the end of the week, however, unsettled conditions were spreading over the western part of the Kingdom from the Atlantic.

Temperature was again much above the mean, the excess ranging from 4° in the Channel Islands and Scotland N., and 5° in Scotland E., to 7° over all the eastern, central, and southern parts of England. The absolute maxima occurred on Saturday over Great Britain, but earlier in the week over Ireland; they were again exceptionally high, ranging from 90° in England E. (at Hillington), 88° in the Midland counties and England S., and 83° in Scotland E., to 77° in Ireland N., and 73° in Ireland S. The lowest of the minima, which were registered during the earlier half of the period, ranged from 42° in Scotland N., and 43° in Scotland E. and England E., to 49° in England N.W., and to 50° in the Channel Islands.

Rainfall exceeded the mean in Scotland N., but was much less in nearly all other districts; over the eastern and southern parts of England rain was again almost entirely absent.

Bright Sunshine was less than the normal over Ireland, and only just equal to it in England N.W., but in all other parts of the Kingdom there was again an excess. The percentage of the possible duration ranged from 69 in England E., and 60 in England S., to 31 in Scotland W., and to between 23 and 28 over Ireland.

Barometer and Wind.—During the first half of this period depressions moved north-eastwards or eastwards over our extreme western and northern districts, that observed on Wednesday being rather deep, and causing a considerable increase in the force of the Westerly winds. After this system had moved on to Scandinavia the anticyclone over our southern districts and France extended more to the Northward and Westward, and the winds became light and variable. By the end of the period the barometer was falling decidedly over the whole of our Islands; the anticyclone had moved away eastwards and the wind had become Southerly.

II.—DATA from which the SUMMARY on page 217 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
0. SCOTLAND, N.	Sumburgh Head	62	47	57.6	49.4	53.3	+ 2.9	79	0	5	Inches. 0.47	Inches. - 0.33	*	*	*
	Stornoway	68	44	61.0	48.6	54.5	+ 3.5	88	0	6	1.31	+ 0.37	25.9	+ 0.9	29
	Wick	70	42	63.1	48.3	55.3	+ 3.5	93	0	5	0.80	+ 0.20	*	*	*
	Lairg	76	44	64.8	46.9	55.4	+ 4.0	94	0	6	1.02	+ 0.32	*	*	*
	Glencarron	78	46	63.9	49.8	56.5	+ 5.4	102	0	6	2.21	+ 0.53	*	*	*
	Fort Augustus	77	45	66.1	49.1	57.2	+ 4.1	106	0	5	0.86	- 0.04	31.1	+13.5	35
	Fort William	72	49	63.1	52.4	57.5	+ 3.9	109	0	6	2.52	+ 0.92	24.2	+ 2.0	27
1. SCOTLAND, E.	Nairn	83	44	68.7	49.1	58.4	+ 5.6	115	0	4	0.37	- 0.21	*	*	*
	Aberdeen	69	45	64.6	50.3	57.1	+ 4.3	106	0	5	0.21	- 0.46	39.4	+ 8.6	44
	Braemar	73	43	63.7	47.4	55.2	+ 5.6	92	0	5	0.51	- 0.30	39.5†	+13.9†	44†
	Ochertyre	78	43	67.3	49.7	58.1	+ 5.1	113	0	4	0.24	- 0.53	*	*	*
	Leith	81	49	69.1	52.6	60.5	+ 5.7	130	0	2	0.31	- 0.20	*	*	*
	Marchmont	78	45	68.3	48.9	58.1	+ 5.8	113	0	3	0.48	- 0.26	30.0	+ 1.3	34
2. ENGLAND, N.E.	Alnwick Castle	76	47	69.4	52.9	60.6	+ 7.7	130	0	5	0.11	- 0.52	*	*	*
	Durham	81	47	72.0	53.8	62.5	+ 8.6	144	0	2	0.03	- 0.52	34.2	+ 5.6	39
	Shields	81	49	70.6	54.3	62.1	+ 7.8	141	0	1	0.05	- 0.50	*	*	*
	Scarborough	84	50	72.0	54.0	62.6	+ 7.3	144	0	1	0.17	- 0.40	32.9	+ 4.4	37
	Spurn Head	71	52	68.0	57.0	62.2	+ 5.6	141	0	0	—	- 0.42	*	*	*
3. ENGLAND, E.	Hillington	90	43	77.5	51.2	63.7	+ 7.9	152	0	0	—	- 0.60	54.2	+21.2	62
	Yarmouth	76	50	69.4	56.3	62.5	+ 5.7	144	0	1	0.01	- 0.60	*	*	*
	Geldeston	80	47	75.2	52.1	63.1	+ 6.5	148	0	0	—	- 0.56	61.2	+23.5	70
	Cambridge	89	45	79.7	52.6	65.5	+ 8.8	165	0	0	—	- 0.50	64.7	+29.2	74
	Rothamsted	87	46	75.1	51.4	62.7	+ 7.2	145	0	0	0.01	- 0.59	57.3	+25.3	65
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	87	49	74.0	51.9	62.4	+ 7.3	143	0	1	0.02	- 0.48	*	*	*
	Loughborough	87	48	76.6	52.4	63.9	+ 7.5	153	0	1	0.03	- 0.55	*	*	*
	Stamford (Duddington)	88	45	75.9	50.3	62.5	+ 5.9	144	0	0	—	- 0.62	*	*	*
	Cheadle	79	48	69.6	53.4	61.1	+ 7.5	134	0	2	0.07	- 0.64	*	*	*
	Shirley (near Solihull)	83	46	73.4	50.4	61.4	+ 5.8	136	0	1	0.04	?	*	*	*
	Churchstoke	80	47	72.0	52.2	61.6	+ 7.7	137	0	2	0.27	- 0.34	47.5	+14.5	54
	Hereford	83	44	73.7	51.3	62.0	+ 7.4	140	0	1	0.05	- 0.63	46.4	+12.9	53
	Cirencester	86	47	75.7	53.3	64.0	+ 7.6	154	0	1	0.01	- 0.57	54.0	+18.7	61
	Oxford	86	47	75.7	53.3	64.0	+ 7.6	154	0	1	0.01	- 0.57	54.0	+18.7	61
5. ENGLAND, S.	London	88	47	79.3	54.3	66.2	+ 8.4	169	0	1	0.04	- 0.47	51.0†	+19.4†	58†
	North Foreland	79	54	71.4	57.7	64.2	+ 6.4	155	0	1	0.02	?	*	*	*
	Cranley	82	46	76.0	53.1	64.0	+ 6.6	154	0	1	0.03	?	*	*	*
	Dungeness	76	49	70.6	56.1	63.0	+ 4.7	147	0	0	—	- 0.58	*	*	*
	Hastings (St. Leonards)	78	52	71.0	58.4	64.4	+ 6.4	157	0	1	0.02	- 0.60	59.1	+19.1	67
	Southampton	79	46	74.8	55.5	64.7	+ 6.7	159	0	1	0.02	- 0.63	47.9	+ 7.9	54
	Hurst Castle	77	48	72.1	58.4	64.9	+ 6.3	160	0	1	0.01	- 0.61	*	*	*
	Shaftesbury	78	47	71.5	55.7	63.2	+ 7.6	148	0	2	0.09	- 0.68	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	73	50	64.4	53.6	58.7	+ 5.4	117	0	7	1.38	- 0.17	*	*	*
	Glasgow	73	49	64.9	53.9	59.1	+ 6.3	120	0	5	0.35	- 0.53	21.1	- 4.7	24
	Ardrossan	70	51	64.0	56.0	59.8	+ 5.3	125	0	3	0.13	- 0.67	*	*	*
	Glenlee	71	47	65.2	51.4	58.0	+ 4.9	112	0	4	1.32	+ 0.21	*	*	*
	Gilcrux (Cumberland)	78	50	67.3	56.1	61.4	+ 8.0	136	0	5	1.45	?	31.8	?	36
	Douglas (Isle of Man)	69	50	64.9	54.3	59.4	+ 5.4	122	0	4	0.60	- 0.24	28.4	- 6.1	32
7. ENGLAND, N.W.	Stonyhurst	76	51	66.8	55.7	61.0	+ 6.6	133	0	5	0.50	- 0.64	22.9	- 7.3	26
	Blackpool	79	49	70.4	54.6	62.1	+ 7.5	141	0	3	0.22	- 0.68	31.3	?	36
	Manchester (Prestwich)	78	53	70.1	56.4	62.9	+ 6.8	146	0	2	0.43	- 0.31	*	*	*
	Liverpool Obsy. (Bidston)	81	54	70.7	57.0	63.6	+ 6.5	151	0	2	0.30	- 0.40	37.9	+ 7.9	43
	Llandudno	73	52	66.6	55.4	60.7	+ 3.9	131	0	4	0.77	+ 0.05	*	*	*
	Holyhead	73	52	66.6	55.4	60.7	+ 3.9	131	0	4	0.77	+ 0.05	*	*	*
8. ENGLAND, S.W.	Llandovery	82	47	72.9	52.7	62.3	+ 7.1	142	0	4	0.71	- 0.33	*	*	*
	Pembroke	71	53	65.4	58.1	61.6	+ 5.0	137	0	3	0.56	- 0.19	36.4	- 0.6	41
	Clifton	80	52	70.1	57.0	63.2	+ 7.2	148	0	2	0.22	- 0.55	*	*	*
	Arlington (N. Devon)	76	49	68.1	54.1	60.8	+ 5.6	132	0	4	1.06	- 0.02	*	*	*
	Cullompton	78	48	71.5	53.3	62.0	+ 5.2	140	0	2	0.22	- 0.50	41.4	+ 5.5	47
	Falmouth	70	53	66.6	56.5	61.3	+ 4.1	135	0	5	0.41	- 0.57	37.4	- 1.4	43
	Plymouth	76	47	68.5	54.4	61.1	+ 3.5	134	0	3	0.12	- 0.68	37.6	- 0.3	43
	Prawle Point	73	51	67.9	56.1	61.7	+ 4.4	138	0	2	0.16	- 0.39	*	*	*
9. IRELAND N.	Malin Head	70	53	64.3	56.3	60.1	+ 5.3	127	0	4	0.27	?	*	*	*
	Londonderry	77	48	67.9	54.8	61.0	+ 6.6	133	0	4	0.54	- 0.31	*	*	*
	Edenfel (Omagh)	71	48	65.6	53.9	59.5	+ 7.1	123	0	5	0.59	- 0.21	*	*	*
	Belmullet	70	51	64.4	56.4	60.2	+ 4.7	127	0	6	0.61	- 0.38	*	*	*
	Markree Castle	71	47	66.9	55.6	61.0	+ 7.9	133	0	4	0.61	- 0.29	17.6	- 7.9	20
	Armagh	72	48	66.1	55.4	60.5	+ 7.0	130	0	3	1.25	+ 0.61	22.6	- 4.2	26
	Donaghadee	73	47	67.0	52.9	59.6	+ 5.0	123	0	5	0.45	- 0.19	*	*	*
	Edgeworthstown	?	?	?	?	?	?	?	?	2	0.62	- 0.05	*	*	*
10 IRELAND S.	Dublin	73	48	68.8	56.4	62.3	+ 6.8	142	0	3	0.27	- 0.23	31.2	- 2.0	35
	Parsonstown	72	47	67.7	55.9	61.5	+ 7.3	137	0	3	0.75	+ 0.05	28.9	- 0.1	33
	Kilkenny	72	44	67.9	54.0	60.6	+ 4.9	130	0	3	0.33	- 0.33	*	*	*
	Roche's Point	69	50	65.6	57.4	61.3	+ 5.0	135	0	4	0.49	- 0.38	*	*	*
	Valencia	71	54	65.7	58.4	61.9	+ 5.3	139	0	4	1.00	- 0.03	14.7	-17.1	17
	Killarney	70	50	67.1	57.9	62.3	+ 6.5	142	0	4	0.44	?	*	*	*
	Foynes	71	52	67.1	56.3	61.4	+ 6.2	136	0	4	0.52	?	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	71	56	67.6	58.1	62.6	+ 4.3	144	0	4	0.68	- 0.07	39.9	?	45
	Jersey	80	50	72.3	56.1	63.8	+ 3.5	153	0	5	0.48	- 0.20	55.3	+ 7.8	64

Stations marked $\mathfrak{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathfrak{S}$ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

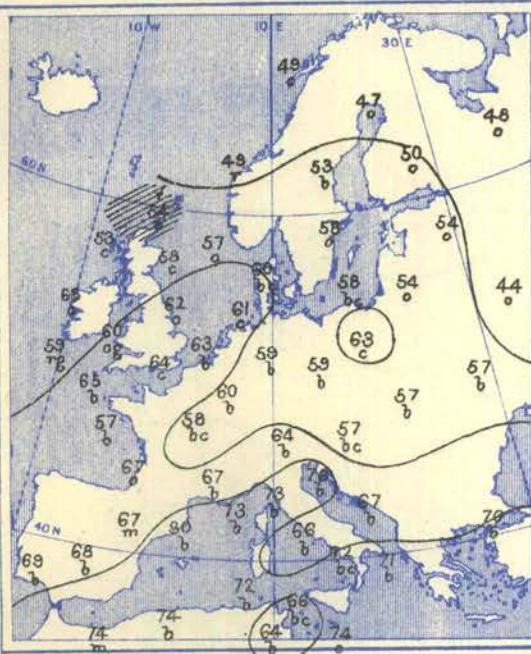
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

‡ Fog or Dew.

Sunday, 11th September.

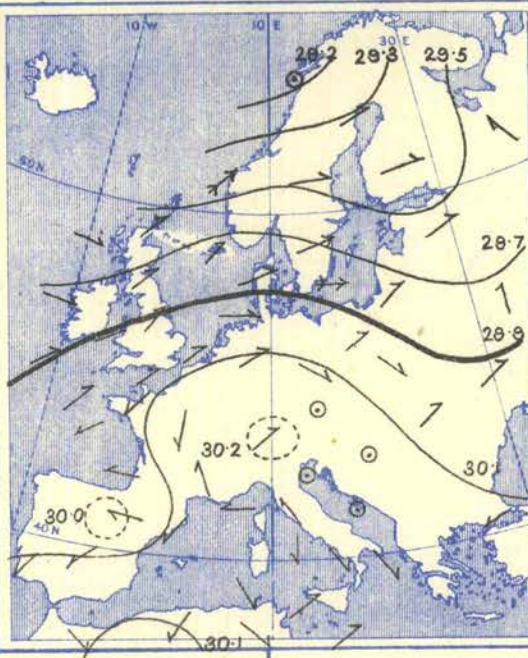
Temperature and Weather.

8 a.m.

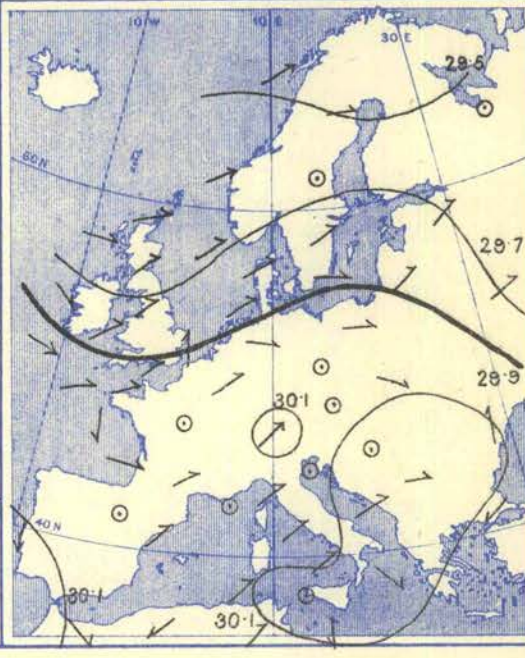


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still very fine over central, southern and western Europe, as well as over the eastern and southern parts of England; dull on our western and northern coasts and in the west of Norway, with rain in places. Very considerable rain later in Scotland and Norway, and in some parts of Ireland; smaller quantities in Brittany and the Channel Islands. Thunder and lightning over the southern and eastern counties of England, and in several parts of France.

Temperature in morning highest, 80° at Barcelona, 74° at Oran and Algiers, and above 70° at the Mediterranean stations generally; above 60° in the west of France and over Great Britain generally. Lowest, 44° at Moscow and 48° to 50° over the most northern of the European districts; 53° at Stornoway, 54° at Sumburgh Head, 58° at Aberdeen and Malin Head. Rising later to 71° at Loughborough and the North Foreland, 78° at Cambridge, 79° in London, to 73° at Berlin, 80° at Paris, and 91° at Lyons.

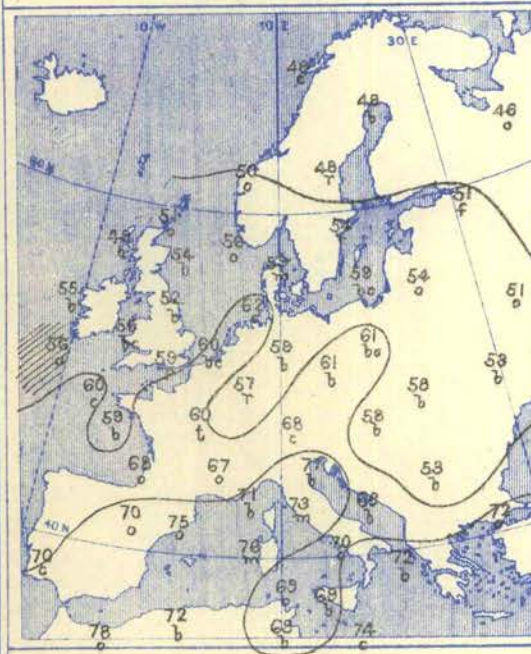
Wind very light and mainly anticyclonic over the southern half of Europe, fresher over the more northern countries and blowing mainly from between South-West and West; a gale from West reported at Wisby, and from South-West at Sumburgh Head. Veering to North-West in Ireland later, and falling light in force over northern Europe as a whole.

Barometer highest, 30.2 ins. and more to 30.0 ins. over all the southern half of Europe. Lowest, 29.20 ins. at Bodö and below 29.4 ins. over all the northern parts of Scandinavia; gradients moderate over the northern, slight over the southern countries. Beginning to rise later over Ireland, and a large shallow secondary moving eastwards over France.

Monday, 12th September.

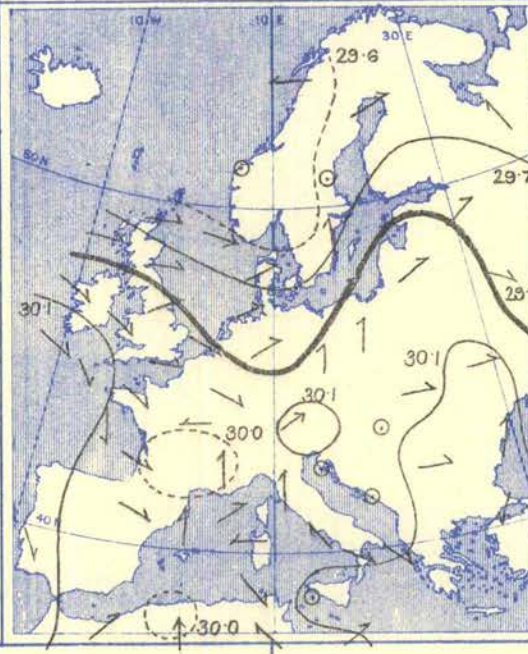
Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Russia, central and south-eastern Europe, and over the Mediterranean, also over Ireland, Wales, and the western parts of England; dull and slightly unsettled over France, Belgium, and our own south-eastern counties, with slight rain in places, thunder at Paris. Some rain later over many parts of France, Germany and Scandinavia, and a renewed fall still later over Scotland and Ireland.

Temperature falling over our Islands and their neighbourhood generally. Morning readings highest, 70° to 75° at many of the Mediterranean and Adriatic stations; below 70° over the greater part of France, 62° to 60° over central Germany, and along the south coast of England. Lowest, (1) 48° to 51° on the north-west coast of Norway and extreme north of Scotland; (2) 46° at Archangel, 61° at Christiansund and Moscow.

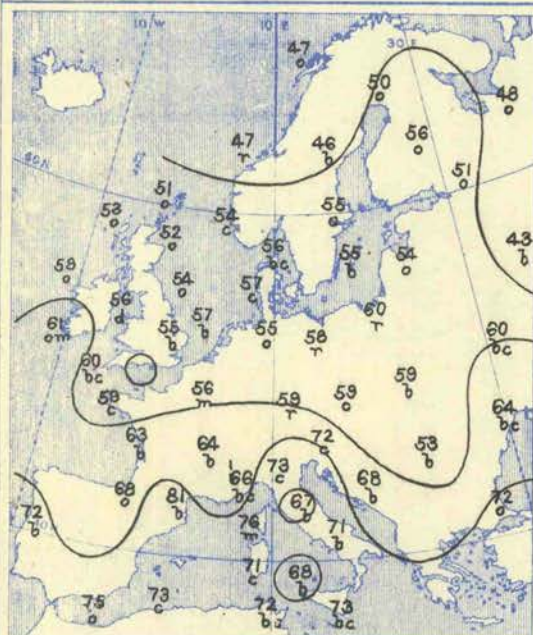
Wind (1) very light and variable over the eastern, central and southern countries; (2) moderate elsewhere—Westerly and North-Westerly over the United Kingdom and the Channel; South-Westerly to Southerly over Germany, the Baltic and Sweden; Easterly in Finmark. Beginning to back a little in the west of Ireland later.

Barometer rising over our Islands and the northern parts of Scandinavia. Morning readings highest, 30.1 ins. and more to 30.0 ins. over all the south-eastern and southern parts of Europe, as well as over the south-western half of our Islands. Lowest, below 29.6 ins. all over Norway. Rising over our Islands generally, but beginning to fall later on in the extreme west of Ireland.

Tuesday, 13th September.

Temperature and Weather.

8 a.m.

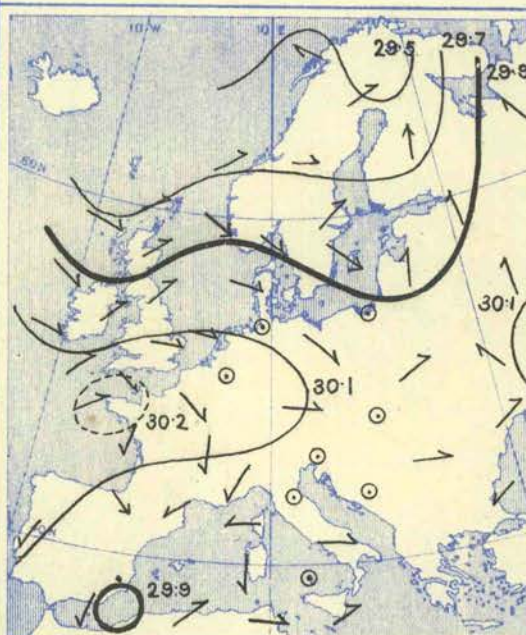


Weather in morning fine and bright over the Mediterranean, south-eastern and western Europe, as well as over the eastern parts of England and the greater part of Sweden; cloudy elsewhere, with rain at several of our western stations, in the north-west of Norway, and at some stations in central Europe. Rain falling later over Norway and the north of Scotland, and very slight falls at several of our western stations, and over Brittany. Lightning seen at Roche's Point and in London at night.

Temperature fallen over England and France, risen over Ireland. Morning readings highest, above 70° at most of the Mediterranean and Adriatic stations and at Constantinople, and above 60° in many parts of France and Germany, and on the south-western coasts of the United Kingdom. Lowest, (1) 48° to 50° in the extreme north of Europe, 51° at Sumburgh Head, 52° at Aberdeen, 54° at Shields; (2) 43° at Moscow, 48° at Kharkov. Rising later to between 65° and 72° in many parts of Ireland and England and to 82° in the south of France; to 68° at Berlin and 69° at Paris.

Barometer and Wind.

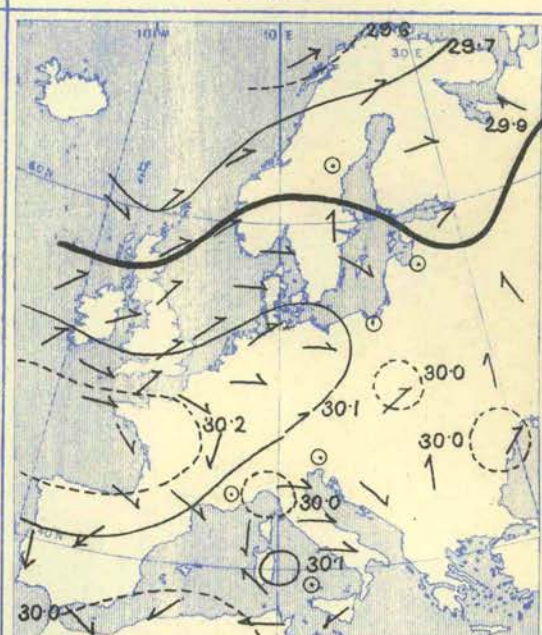
8 a.m.



Wind (1) exceedingly light and variable over the western, central and eastern parts of Continental Europe; (2) moderate to fresh from West over the southern part of Ireland, and from South-West over Scilly, Wales, and the north-eastern parts of Great Britain; North-Westerly to South-Westerly over the northern parts of Europe. No decided change later, beyond a backing towards South in the west of Ireland.

Barometer highest, (1) 30.2 ins. and more to 30.1 ins. over the Bay of Biscay, France and the south of England; (2) 30.1 ins. and more over the southern and south-eastern parts of Russia. Lowest, (1) 29.5 ins. and less over Lapland, and below 29.7 ins. in the Hebrides and over the northern parts of Scandinavia and Finland; (2) below 30.0 ins. in an ill-shaped "V" over central Europe, Austria and the Adriatic. Rising later over the western parts of the United Kingdom and in Norway, falling slightly over the east of England.

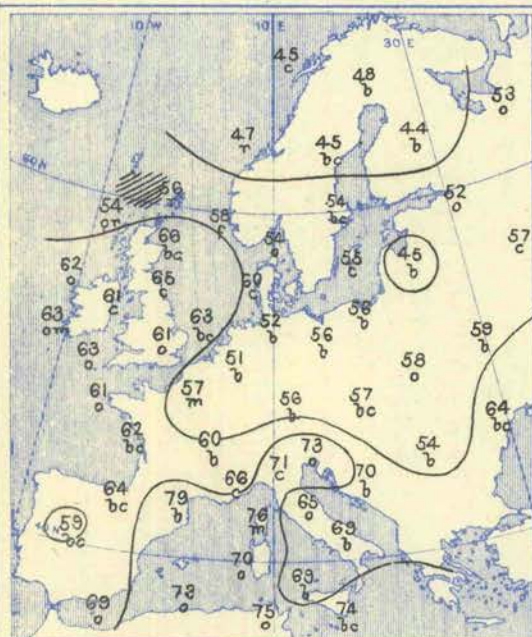
6 p.m.



Wednesday, 14th September.

Temperature and Weather.

8 a.m.

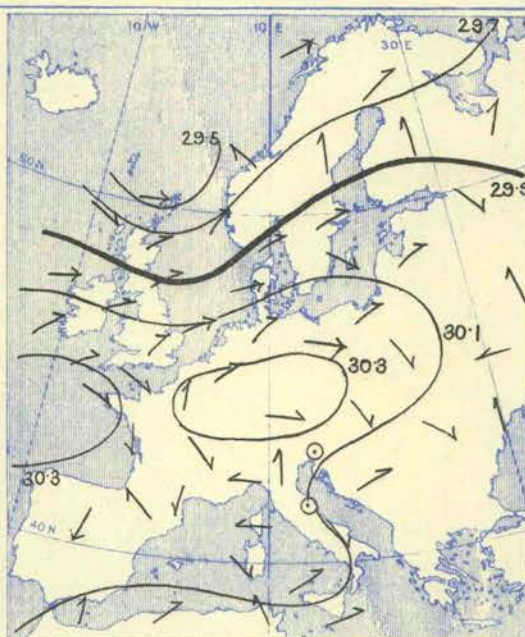


Weather in morning fine over nearly the whole of Continental Europe and the eastern parts of England and Scotland, and in many places clear and bright, dull on our extreme west and north-west coasts and in the west of Norway, with rain in several places and slightly showery very locally in parts of the English Channel. A moderate fall of rain later over Scandinavia generally, and small quantities in the north and west of Scotland and the north of Ireland; over the more southern and eastern districts weather very fine.

Temperature in morning highest, 70° at Barcelona, 73° at Algiers and Trieste, and exceeding 70° at most of the Mediterranean and Adriatic stations; 62° to 65° in the west of France and over the greater part of England and Ireland, 63° to 66° in the east of Scotland. Lowest, (1) 45° to 48° over the northern half of Scandinavia, 49° at Helsingfors; (2) 52° to 57° over the greater part of central Europe; rising later to between 70° and 80° over Ireland and England to 81° at Nice and to 84° at Perpignan, but touching only 69° at Paris and 68° at Berlin.

Barometer and Wind.

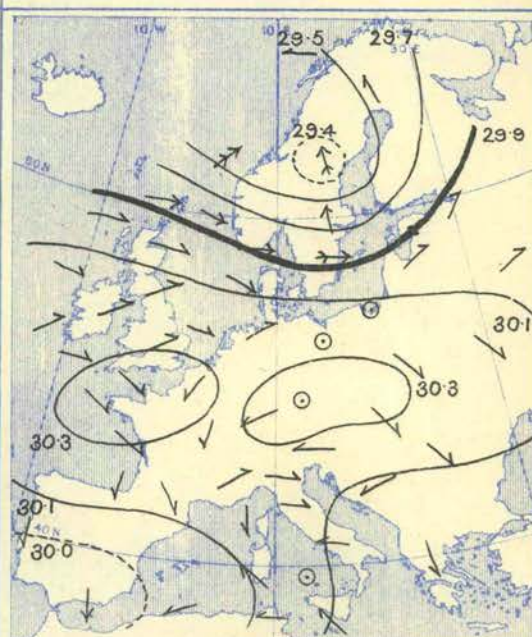
8 a.m.



Wind (1) remaining very light over all the southern half of Europe, and mainly anticyclonic in direction; (2) Cyclonic over the more northern countries—North-Westerly to South-Westerly over the northern parts of the British Islands, South-Westerly over Scandinavia as a whole, but South-Easterly at Christiansund, and blowing strongly at many of the Scandinavian stations. Hardly any change later beyond a tendency for Easterly winds in some parts of France.

Barometer highest, 30.3 ins. and more to 30.1 ins. in a complex anticyclonic system spreading in from the Atlantic over France, Germany, and the southern parts of England. Lowest, below 29.6 ins. over Lapland, and below 29.5 ins. in a cyclonic disturbance over the Shetlands. Rising over our Islands later—rapidly in the north, falling over Sweden and also over the Spanish Peninsula.

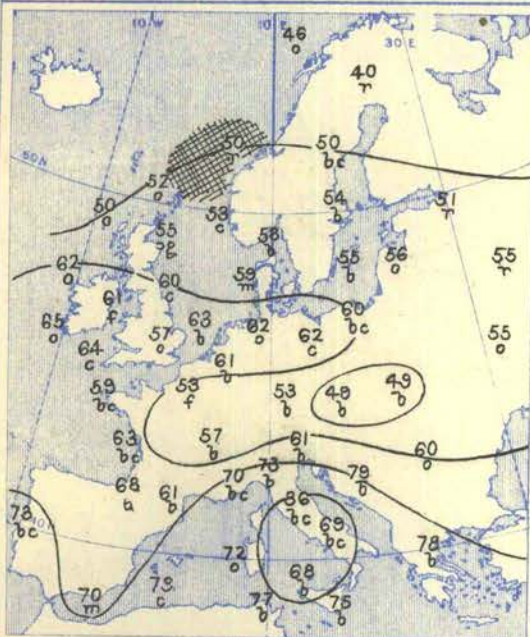
6 p.m.



Thursday, 15th September.

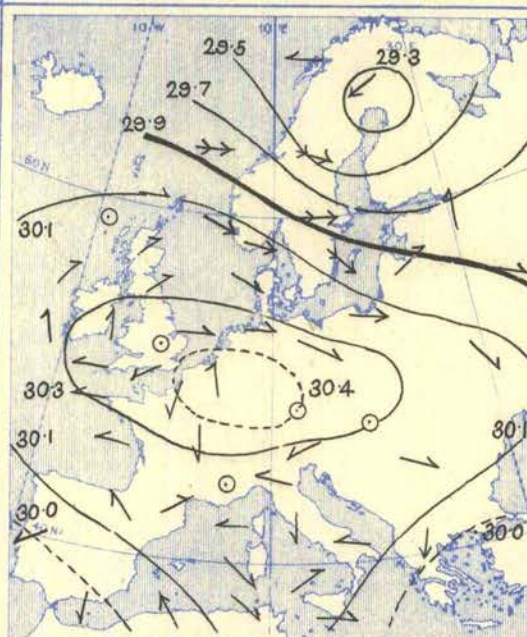
Temperature and Weather.

8 a.m.

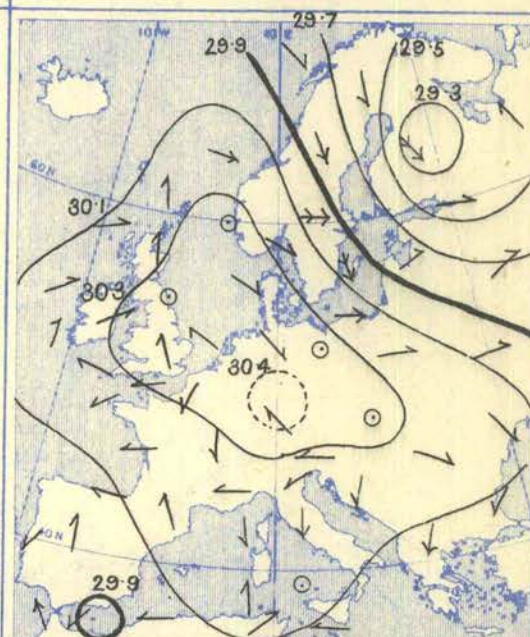


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine over all the southern and western countries of Europe, but foggy or hazy over France and the southern and eastern parts of England, rainy in the extreme north of Scotland and the west of Norway, as well as at several stations in Finland and at Haparanda. Very slight rain later in some parts of Norway, Scotland and the north of Ireland, but sky becoming clear and bright over England, France and Germany.

Wind (1) light and anticyclonic over the southern half of Europe and the British Islands—Easterly over France, Southerly and South-Westerly over our western districts, North-Westerly and Westerly over the North Sea; (2) cyclonic over the northern countries—North-East and strong at Haparanda, North-Westerly and Westerly, a strong gale, over Sweden, Westerly to Southerly over western Russia. No decided change later.

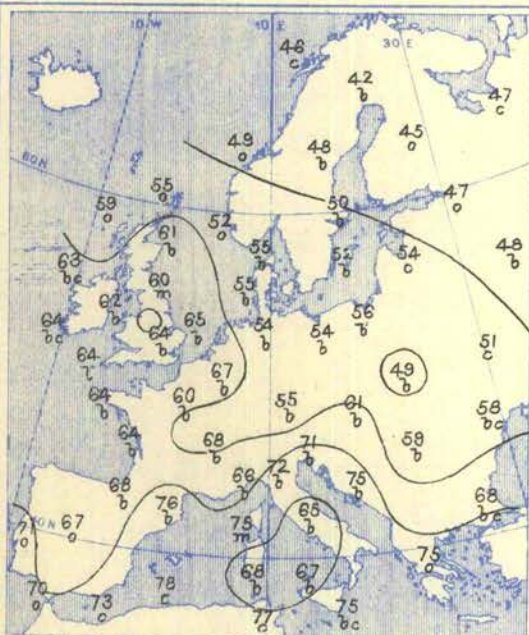
Barometer in morning highest, 30.4 ins. and more to 30.2 ins. in a large anticyclone covering the British Islands, France and Germany, and extending with slightly lower values across the Mediterranean to Tunis and the north-east of Africa. Lowest, (1) 29.2 ins. and less to 29.4 ins. in a well marked depression over the northern parts of the Gulf of Bothnia and the neighbouring parts of Sweden and Finland; (2) below 30.0 ins. over the south-western parts of the Spanish Peninsula. Rising later over Scandinavia, the Baltic and Denmark, falling over France and the south-west and west of our Islands.

Temperature in morning highest, 79° at Algiers and Lesina, and still above 70° at most of the Mediterranean stations and at Lisbon; above 60° over the west of France and most of the coasts of Ireland and England. Lowest, (1) 40° at Haparanda, and 46° to 50° over the extreme northern countries generally; 50° to 55° over the greater part of Scotland; (2) 49° at Cracow and Prague, and 52° to 55° over south Germany as a whole. Rising later to between 60° and 64° over the northern parts of our Islands, to 80° at Loughborough, 81° in London, 82° at Cambridge, and 86° at Biarritz, but not exceeding 70° at Berlin and 73° at Paris.

Friday, 16th September.

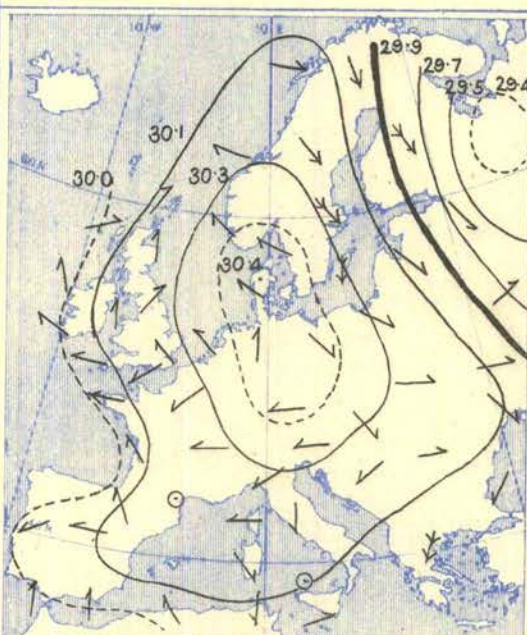
Temperature and Weather.

8 a.m.

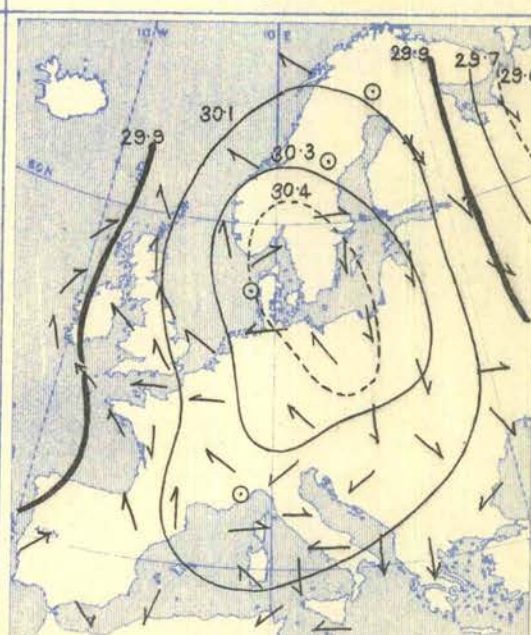


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine over north-western, western, southern, and south-eastern Europe, changeable and unsettled over the most northern countries, mist and dew very prevalent over England. Some rain, thunder and lightning over Ireland later, and a heavy fall of rain (1.34 ins.) at Bodö (Finmark). Rainfall general at our western stations, generally still later.

Wind (1) extremely light and anticyclonic over Denmark, Germany, the Netherlands, and east of France, but rather more brisk from between South-East and South over our Islands; (2) North-Westerly to Northerly over Finland and the Baltic, and blowing a gale in most places; (3) a North-Easterly gale blowing over Greece. Freshening somewhat over our Islands later, with no change in direction; apparently falling light over the Baltic.

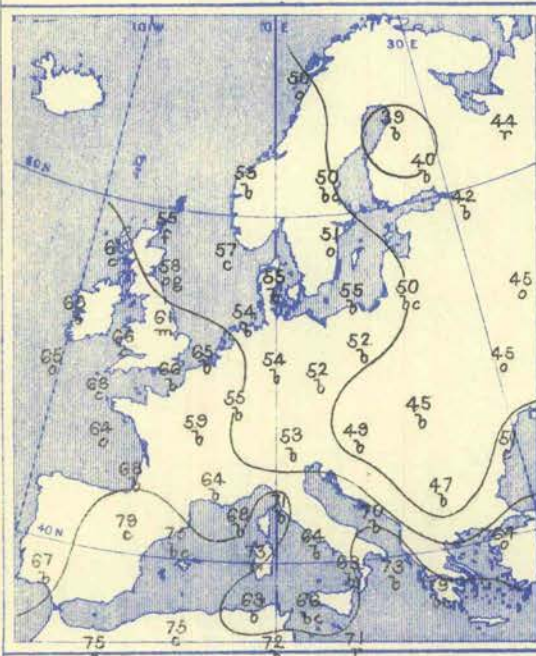
Barometer highest, 30.4 ins. and more over North Germany, Denmark, and the southern parts of Scandinavia, and exceeding 30.1 ins. in a large anticyclone covering the whole of north-western, western, and southern Europe. Lowest, (1) 29.4 ins. and less to 29.5 ins. in a depression over Russia, and below 30.0 ins. over those parts of the Atlantic adjacent to the coasts of western Europe. Falling decidedly over our Islands and the west of Norway during day, but only slightly over Spain and the south-west of France.

Temperature rising fast over England. Highest, 78° at Algiers, 76° at Barcelona, and exceeding 70° at most of the Mediterranean and Adriatic stations; 68° at Hurst Castle, and above 60° in many parts of our Islands, the west and north of France, and in the Netherlands. Lowest, 42° to 48° over Lapland, Finland, and the northern part of Russia, 49° at Warsaw and Lemberg, 55° at Munich, 57° at Wiesbaden and Belfort. Rising rapidly later over the British Islands and France, and touching 81° at Leith, 83° at Oxford, 84° at Loughborough, 86° at Cambridge and in London, and 90° at Rochefort, but not exceeding 81° at Paris, 80° at Cagliari or 66° at Berlin.

Saturday, 17th September.

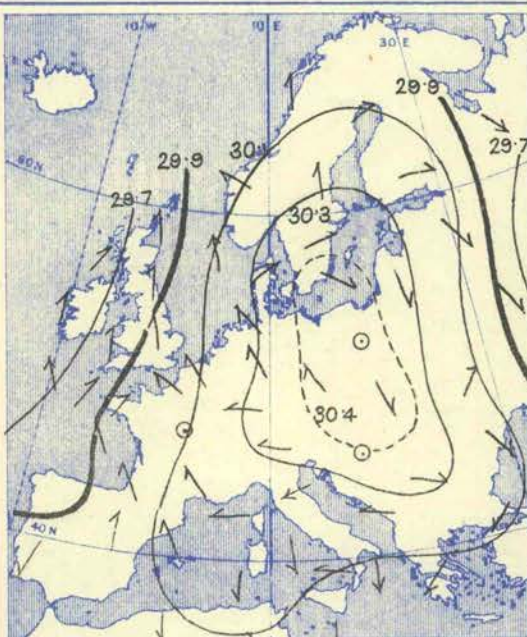
Temperature and Weather.

8 a.m.

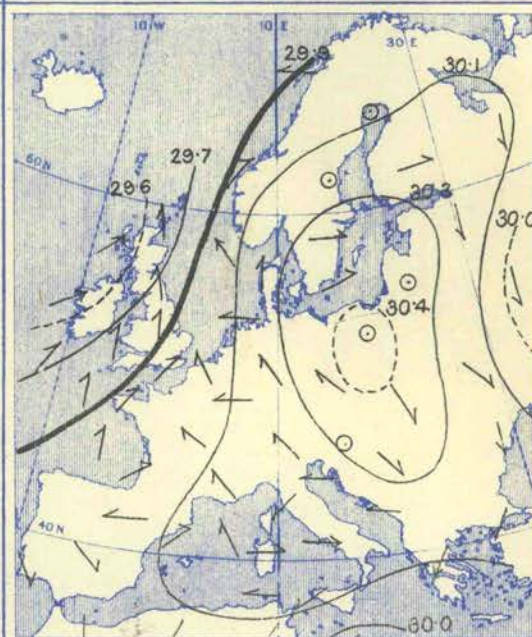


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over almost the whole of Continental Europe, and by far the greater part of the British Islands, but becoming dull and unsettled on all our south-western coasts, with rain and thunder at times. Rain falling later at all our western and most of our northern stations, and thunderstorms occurring over the northern parts of England. Some rain over Brittany also.

Temperature risen very decidedly over central England, and to some extent over Scotland, Ireland, and France. Morning readings highest, 79° at Patras, 75° at Algiers, and above 70° at the Mediterranean stations generally; much above 60° over almost the whole of the British Islands. Lowest, (1) 45° to 40° over Finland and the north of Russia; (2) 45° to 53° over central Europe; (3) 54° at Cuxhaven and 55° at Sumburgh Head. Rising later to between 80° and 89° in many parts of Great Britain, to 84° at Paris, and 87° at Lyons, but not exceeding 70° at Munich and Berlin.

Wind (1) South-Easterly to Southerly over our Islands, moderate to fresh as a whole; South-Easterly, moderate to light, over the North Sea and English Channel; Southerly and South-Westerly over northern Europe; (2) very light and anticyclonic over the more southern and eastern countries—South-Easterly over France, North-Westerly and Northerly over Russia. Freshening considerably from South and South-West later over the western parts of the British Islands.

Barometer highest, 30.4 ins. to 30.2 ins. in a large anticyclone covering the whole of central Europe, the Baltic, and much of Scandinavia. Lowest, (1) below 29.7 ins. over the Hebrides and western parts of Ireland, and evidently still lower over the Atlantic; (2) below 29.8 ins. over central Russia. Continuing to fall over the British Islands later, as a depression advanced in a North-Easterly direction outside our north-western coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: $\Rightarrow$ = a heavy gale; $\Rightarrow$ = a gale; $\Rightarrow$ = a fresh to strong breeze; $\Rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: --- = blue sky; $\circ$ = detached clouds; --- = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

With the exception of Monday last, when a large, but shallow, depression moved eastwards over France, the main feature has been the steady prevalence of high-pressure areas over the southern half of Europe, and depressions varying in intensity in the west and north, so that while in the former regions there has been a continuance of the droughty conditions recently observed, the most north-western and northern districts have been marked by very frequent and considerable falls of rain and South-Westerly to North-Westerly winds. The north-western parts of Norway have had falls of much more than 2 ins. of rain, and Stornoway (Hebrides) more than an inch, but the southern countries have been very short indeed, and in many places there has been no rain at all.

The deepest and most clearly defined depression was that which reached Norway on Wednesday, and the northern extremity of the Gulf of Bothnia on the following morning, causing strong Westerly to North-Westerly gales over northern Europe generally, and much rain in places; the centre then moved eastward over the north of Russia, and had disappeared by Friday night.

About this time the barometer began to fall decidedly over the Atlantic and the western parts of our Islands, and there were indications that the hot, dry weather so long prevalent over England was drawing to a close.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 218.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	31.5	?	35	?	WESTBOURNE (Emsworth)	48.5*	+ 9.3	55*	+12
STRATHPEFFER SPA	31.5	+ 3.6	35	+ 6	WATERGATE (Emsworth)	49.7	?	56	?
EDINBURGH	24.2	- 2.8	27	- 2	BRIGHTON	56.8	+15.8	65	+20
MORPETH	29.3	?	33	?	EASTBOURNE	61.0	+21.1	69	+26
NEWCASTLE-ON-TYNE	28.8	?	30	?	VENTNOR HOSPITAL	44.5	?	51	?
OSWALDKIRK (Yorkshire)	31.5	+ 4.3	36	+ 6	SOUTHPORT	32.8	?	37	?
HOLLESLEY BAY	63.3	?	72	?	COLWYN BAY	42.1	?	48	?
SHEFFIELD	36.2	?	41	?	TENBY	37.8*	+ 0.1	43*	+ 2
WORKSOP	34.7	+ 6.3	39	+ 7	NEWQUAY				
THURCASTON (Leicestershire)	51.1	+20.9	58	+25	TORQUAY	41.7*	+ 2.5	47*	+ 3
PLUMSTEAD COMMON	51.5	?	59	?	GUERNSEY	57.3*	+11.7	66*	+17
MARGATE	56.4	+20.9	64	+25					

* The values at Westbourne, Tenby Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 38.]
Third Series.

WEEK ENDING SATURDAY, SEPTEMBER 24TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1869-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 224.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	68	33	58.2	42.6	50.0	1 below	Day-deg. 56	Day-deg. - 10	Day-deg. 0	Day-deg. - 1	Day-deg. 1868	Day-deg. +237	Day-deg. 395	Day-deg. - 230
	1. SCOTLAND, EAST	69	30	59.8	42.4	50.7	1 below	61	- 16	0	- 1	2166	+178	427	- 224
	2. ENGLAND, N.E.	75	34	61.1	47.2	53.8	1 above	83	- 7	0	0	2360*	+239	333	- 216
	3. ENGLAND, EAST	76	37	66.1	48.2	56.7	2 above	103	+ 4	0	0	2656	+200	410	- 207
	4. MIDLAND COUNTIES	73	31	64.8	46.0	54.9	1 above	90	- 7	0	0	2641*	+188	404	- 215
	5. ENGLAND SOUTH	75	38	67.6	49.7	58.2	2 above	113	+ 5	0	0	2920	+259	234	- 243
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	67	33	60.3	45.6	52.6	0 (average)	74	- 6	0	0	2322	+251	245	- 217
	7. ENGLAND, N.W.	68	35	61.5	48.0	54.4	0 (average)	87	- 5	0	0	2521	+261	215	- 244
	8. ENGLAND, S.W.	74	37	65.1	50.7	57.6	2 above	109	+ 9	0	0	2772	+286	205	- 156
	9. IRELAND, NORTH	70	35	61.5	47.9	54.4	2 above	87	+ 7	0	0	2444	+252	227	- 168
	10. IRELAND, SOUTH	72	38	64.4	50.9	57.4	3 above	108	+15	0	0	2829	+353	165	- 134
	-CHANNEL ISLANDS	75	48	68.0	54.7	61.1	3 above	134	+20	0	0	3*30	+443	55	- 93

DISTRICTS. (See p. 224.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.		Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
								Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	14	3 more	186	+15	40.6	+ 7.6	31	+14	37	+17	1046	+130	29	+ 4	
	1. SCOTLAND, EAST	3	4	3 less	141	+ 1	17.9	- 4.2	33	+ 7	39	+ 9	1157	+ 75	33	+ 3	
	2. ENGLAND, N.E.	2	1	6 less	122	- 9	13.6	- 4.5	19	- 8	22	- 9	1069*	+ 17	31	+ 1	
	3. ENGLAND, EAST	1	1	5 less	107	-19	12.9	- 5.1	30	- 2	36	- 3	1292	- 6	36	- 1	
	4. MIDLAND COUNTIES	1	less than ½	6 less	109	-15	12.9	- 6.7	35	+ 7	41	+ 9	1211	+ 74	35	+ 2	
	5. ENGLAND, SOUTH	2	2	4 less	100	-20	11.8	- 7.6	40	+ 5	47	+ 6	1308	+ 11	39	0	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	8	2 less	162	+15	28.9	- 4.0	31	- 1	36	- 1	1172	+ 63	34	+ 1	
	7. ENGLAND, N.W.	3	2	7 less	136	+ 1	23.2*	- 0.2	35	+ 7	41	+ 7	1249	+121	36	+ 3	
	8. ENGLAND, S.W.	2	3	7 less	120	-15	19.6	- 6.5	50	+15	59	+19	1464*	+ 75	42	+ 2	
	9. IRELAND, NORTH	3	3	5 less	171	+11	24.6	- 1.3	32	+ 7	38	+ 9	1103	+ 54	31	+ 1	
	10. IRELAND, SOUTH	2	2	5 less	134	-10	24.8	- 2.2	44	+13	52	+17	1242	+ 53	35	+ 1	
	- CHANNEL ISLANDS	1	less than ½	8 less	136	- 6	15.3	- 6.0	60	+23	71	+29	1672	+115	50	+ 4	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather was unsettled at the commencement of the week, and rain was experienced at nearly all our stations. By Tuesday, however, it had again become fine and dry generally, and continued so throughout the period.

Temperature was much lower than in the two preceding weeks, but was still slightly above the mean over Ireland and the greater part of England. In the north and east of Scotland, however, it was a little below it. The highest of the maxima were registered, as a rule, either on the 20th or 21st, and ranged from 76° in England E., to 68° in Scotland N. and England N.W., and to 67° in Scotland W. The lowest of the minima, which occurred towards the end of the period, were as low as 30° in Scotland E., and 31° in the Midland counties; elsewhere they varied from 33° in Scotland N. and W. to 38° in England S. and Ireland S., and to 48° in the Channel Islands. The range of temperature during this period was thus very large.

Rainfall exceeded the mean in Scotland N., but was again less in all other parts of the Kingdom. In most parts of England the fall was extremely slight.

Bright Sunshine was very prevalent in most districts, but somewhat deficient in England N.E. and E., as well as in Scotland W. The percentage of possible duration ranged from 71 in the Channel Islands, and from 59 in England S.W., to 36 in Scotland W., and to only 22 in England N.E.

Barometer and Wind.—During the early days of the period a "V"-shaped depression passed over our Islands from the Atlantic, with moderate or fresh winds shifting from the Southward to West and North. This was followed by another depression which affected our north-western and northern coasts, but by the 21st an anticyclone commenced to appear over our Islands, and this system maintained its position until the end of the week. The winds consequently became North-easterly or Easterly in the south-east and south, and increased considerably in force in the Channel, while in the north they were light and very variable.

II.—DATA from which the SUMMARY on page 223 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42° F.	Below 42° F.	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	58	40	52.1	44.9	48.3	- 1.3	44	0	0.58	- 0.22	*	*	*	*
	Stornoway	60	36	56.9	42.1	49.1	- 0.7	50	0	1.55	+ 0.57	36.9	+13.1	43	+16
	Wick	68	40	60.9	45.6	52.9	+ 2.1	76	0	0.92	+ 0.34	*	*	*	*
	Laing	66	35	61.1	40.3	50.2	+ 0.8	65	5	0.89	+ 0.11	*	*	*	*
	Glencarron	65	37	57.8	42.0	49.5	- 0.3	53	0	2.04	+ 0.28	*	*	*	*
	Fort Augustus	66	33	59.1	40.2	49.2	- 2.5	58	5	1.28	+ 0.33	32.4	+15.1	38	+18
1. SCOTLAND, E.	Fort William	65	37	59.3	43.1	50.8	- 1.5	62	0	2.65	+ 0.95	46.1	+23.9	54	+29
	Nairn	65	31	59.6	41.9	50.3	- 1.2	59	0	0.38	- 0.24	*	*	*	*
	Aberdeen	64	33	58.3	46.6	52.2	+ 0.4	71	0	0.49	- 0.21	31.2	+ 2.6	37	+ 4
	Braemar	62	30	58.4	37.1	47.2	- 1.1	57	14	0.60	- 0.15	43.7†	+18.7†	51†	+23†
	Ochertyre	65	35	61.9	41.6	51.3	- 0.3	67	1	0.55	- 0.27	*	*	*	*
	Leith	69	38	61.7	45.1	53.0	- 0.5	77	0	0.17	- 0.36	*	*	*	*
2. ENGLAND, N.E.	Marchmont	63	35	58.7	41.9	49.9	- 1.0	56	0	0.27	- 0.51	25.0	- 0.0	29	- 1
	Alnwick Castle	65	34	59.6	44.5	51.7	0.0	68	0	0.14	- 0.55	*	*	*	*
	Durham	70	36	60.8	43.6	51.8	- 0.6	69	0	0.02	- 0.58	17.4	- 9.3	20	-11
	Shields	69	43	60.7	48.6	54.4	+ 1.6	87	0	0.01	- 0.56	*	*	*	*
	Scarborough	75	43	61.5	47.1	54.0	+ 0.2	84	0	0.04	- 0.60	14.5	?	17	?
	York	69	37	61.9	46.3	53.7	- 0.1	82	0	0.05	- 0.54	22.3	- 5.1	26	- 6
3. ENGLAND, E.	Spurn Head	68	47	62.0	53.3	57.4	+ 2.0	108	0	0.03	- 0.45	*	*	*	*
	Hillington	74	38	66.5	46.5	56.0	+ 1.5	98	0	0.03	- 0.61	*	*	*	*
	Yarmouth	70	43	64.3	51.7	57.7	+ 2.1	110	0	0.13	- 0.55	*	*	*	*
	Geldeston	75	41	66.4	49.5	57.5	+ 2.2	109	0	0.19	- 0.41	26.9	- 9.1	32	-10
	Cambridge	76	39	68.3	47.7	57.5	+ 2.4	109	0	0.01	- 0.49	29.8	- 3.4	35	- 4
	Rothamsted	72	37	64.9	45.7	54.8	+ 0.7	90	0	0.06	- 0.59	37.5	+ 5.2	44	+ 6
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	69	35	63.1	45.9	54.1	+ 0.5	85	0	0.05	- 0.51	*	*	*	*
	Loughborough	73	32	65.7	47.0	55.9	+ 1.3	97	0	0.02	- 0.58	*	*	*	*
	Stamford (Duddington)	72	36	65.4	47.6	56.1	+ 0.9	99	0	0.0	- 0.69	*	*	*	*
	Cheadle	69	41	63.3	45.9	54.2	+ 1.6	85	0	0.03	- 0.67	*	*	*	*
	Shirley (near Solihull)	72	31	63.9	46.1	54.6	+ 1.0	88	0	0.01	?	*	*	*	*
	Churchstoke	70	33	65.1	43.1	53.6	+ 1.4	81	0	0.01	- 0.66	41.9	+11.6	49	+14
5. ENGLAND, S.	Hereford	73	33	65.4	45.1	54.7	+ 0.7	90	0	0.0	- 0.65	*	*	*	*
	Cirencester	71	38	64.9	46.1	55.1	+ 2.0	92	0	0.09	- 0.62	41.9	+12.0	49	+14
	Oxford	72	37	66.3	46.9	56.1	+ 1.3	99	0	0.05	- 0.58	41.8	+ 9.3	49	+11
	London	74	38	68.1	47.7	57.4	+ 1.5	108	0	0.15	- 0.43	31.9†	+ 3.9†	38†	+ 5†
	North Foreland	73	46	66.7	53.4	59.7	+ 2.9	124	0	0.17	?	*	*	*	*
	Cranley	74	38	68.6	46.6	57.1	+ 1.1	106	0	0.11	?	*	*	*	*
6. SCOTLAND, W.	Dungeness	70	42	67.0	50.9	58.6	+ 1.6	116	0	0.21	- 0.46	*	*	*	*
	Hastings (St. Leonards)	70	45	66.3	50.5	58.0	+ 1.2	112	0	0.35	- 0.35	42.7	+ 4.8	50	+ 6
	Southampton	75	41	69.6	47.5	58.0	+ 1.4	112	0	0.03	- 0.69	43.4	+ 8.1	51	+10
	Hurst Castle	72	48	68.0	53.0	60.1	+ 3.0	127	0	0.01	- 0.68	*	*	*	*
	Shaftesbury	73	43	66.1	48.2	56.7	+ 2.9	103	0	0.22	- 0.60	*	*	*	*
	Laudale (Loch Sunart)	67	41	61.2	46.1	53.3	+ 1.5	79	0	1.59	- 0.11	*	*	*	*
7. ENGLAND, N.W.	Glasgow	64	37	57.4	44.1	50.4	- 0.8	59	0	0.73	- 0.13	17.7	- 5.3	21	- 6
	Ardrossan	61	40	59.4	47.9	53.4	+ 0.2	80	0	0.25	- 0.53	*	*	*	*
	Glenlee	64	33	61.6	40.9	50.8	- 1.0	66	3	0.99	- 0.19	*	*	*	*
	Gilcrux (Cumberland)	66	38	61.6	46.1	53.5	+ 1.2	81	0	0.62	?	37.7	?	44	?
	Douglas (Isle of Man)	65	44	60.6	48.7	54.4	+ 1.5	87	0	0.86	+ 0.06	36.0	+ 2.5	42	+ 3
	Stonyhurst	67	37	60.3	46.2	52.9	- 0.2	76	0	0.44	- 0.69	32.1	+ 2.9	38	+ 4
8. ENGLAND, S.W.	Blackpool	67	37	61.5	47.3	54.1	- 0.1	85	2	0.10	- 0.80	29.9	+ 2.7	25	+ 2
	Manchester (Prestwich)	68	35	62.4	44.9	53.2	- 0.1	78	0	0.17	- 0.80	26.8	?	31	?
	Liverpool Obsy. (Bidston)	67	42	60.6	48.9	54.5	- 0.2	88	0	0.11	- 0.69	*	*	*	*
	Llandudno	68	44	63.6	49.7	56.3	+ 0.6	100	0	0.29	- 0.47	42.7	+14.9	50	+18
	Holyhead	64	46	60.7	50.7	55.5	- 0.2	95	0	0.20	- 0.55	*	*	*	*
	Llandovery	73	37	66.0	45.3	55.2	+ 1.9	92	0	0.41	- 0.69	*	*	*	*
9. IRELAND N.	Pembroke	65	50	61.9	54.3	57.9	+ 2.3	111	0	0.22	- 0.60	51.1	+17.1	60	+21
	Clifton	69	44	64.5	51.4	57.6	+ 3.0	109	0	0.22	- 0.60	*	*	*	*
	Arlington (N. Devon)	71	43	64.6	48.3	56.1	+ 2.0	99	0	0.61	- 0.51	*	*	*	*
	Cullompton	74	39	67.4	46.2	56.3	+ 0.7	100	0	0.22	- 0.59	45.5	+12.7	54	+17
	Falmouth	68	49	64.3	54.4	59.1	+ 2.9	120	0	0.09	- 0.96	47.8	-12.3	56	+15
	Plymouth	71	48	65.8	53.1	59.2	+ 2.8	120	0	0.20	- 0.68	54.5	+19.4	64	+23
10 IRELAND S.	Prawle Point	69	50	65.9	52.9	59.1	+ 2.7	120	0	0.03	- 0.62	*	*	*	*
	Malin Head	64	47	58.7	49.6	53.9	+ 0.7	83	0	0.46	?	*	*	*	*
	Londonderry	68	42	64.3	48.3	55.9	+ 3.0	97	0	0.51	- 0.37	*	*	*	*
	Edenfel (Omagh)	65	35	61.6	45.3	53.1	+ 2.4	78	0	0.36	- 0.47	*	*	*	*
	Belmullet	64	45	61.1	49.3	54.9	+ 1.1	90	0	0.49	- 0.54	*	*	*	*
	Markree Castle	66	35	62.4	46.3	54.0	+ 2.1	84	0	0.21	- 0.69	31.3	+ 7.4	37	+ 9
CHANNEL ISLANDS	Armagh	68	35	61.8	45.3	53.2	+ 1.0	78	0	0.30	- 0.33	33.0	+ 6.3	39	+ 8
	Donaghadee	65	48	60.6	51.0	55.6	+ 2.2	95	0	0.17	- 0.46	*	*	*	*
	Edgeworthstown	70	?	63.5	?	?	?	?	?	0.17	- 0.50	*	*	*	*
	Dublin	71	48	64.3	51.8	57.8	+ 3.6	111	0	0.16	- 0.36	47.4	+15.2	56	+19
	Parsonstown	69	38	64.1	48.6	56.0	+ 3.4	98	0	0.12	- 0.62	43.1	+14.0	51	+18
	Kilkenny	70	40	64.6	47.4	55.6	+ 1.2	95	0	0.09	- 0.50	*	*	*	*
CHANNEL ISLANDS	Roche's Point	64	50	62.7	53.3	57.8	+ 2.9	111	0	0.36	- 0.46	*	*	*	*
	Valencia	67	46	65.0	52.6	58.8	+ 3.2	118	0	0.38	- 0.60	42.8	+12.5	50	+15
	Killarney	72	47	65.2	51.9	58.2	+ 3.8	113	0	0.12	?	*	*	*	*
	Foynes	?	46	?	51.7	?	?	?	?	0.04	?	*	*	*	*
	Scilly (St. Mary's)	69	49	67.0	55.1	60.8	+ 3.3	132	0	0	- 0.84	51.3	?	60	?
	Jersey	75	48	68.9	54.3	61.3	+ 2.0	135	0	0.07	- 0.72	62.5	+20.4	74	+25

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

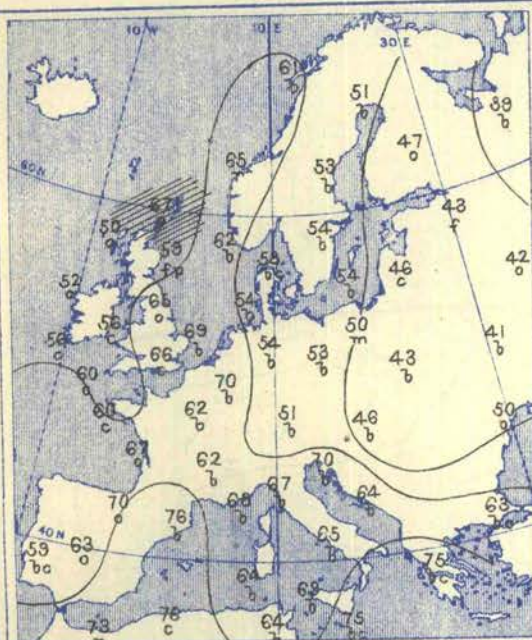
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 18th September.

Temperature and Weather.

8 a.m.

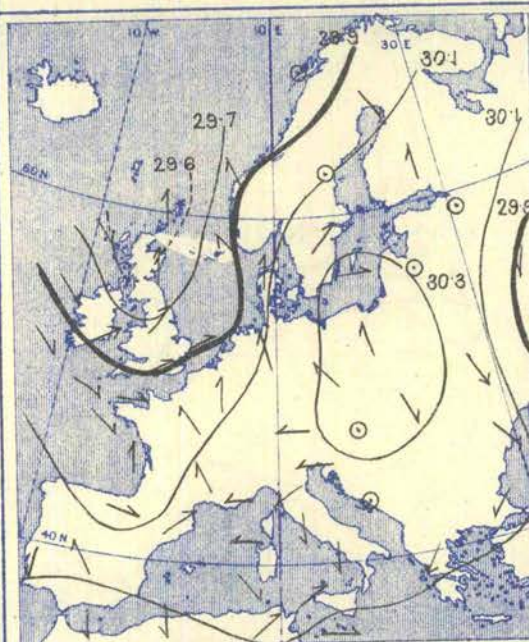


Weather cloudy or dull over the United Kingdom generally, with rain in several places. Fine over the greater part of the Continent, but cloudy at many of the Russian stations and also in the west of France, with rain at Lorient. Some improvement taking place later in most parts of our Islands, but rain falling over the western parts of the Continent; lightning seen at Algiers at night.

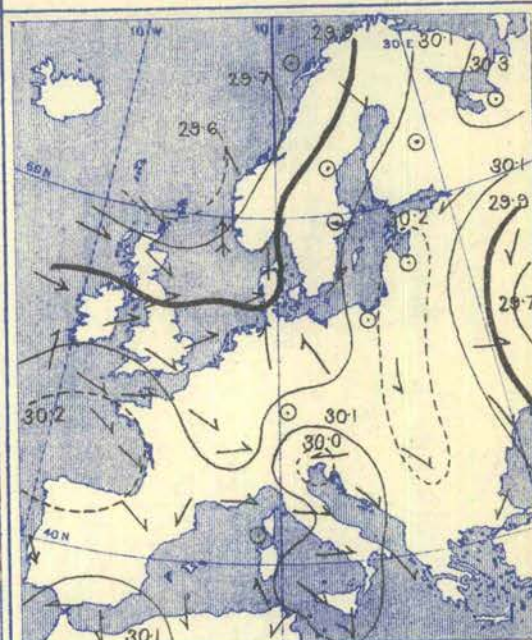
Temperature fallen several degrees in our Islands, and to a less extent in most parts of central and southern Europe, but risen in the northern countries. Morning readings highest, 76° at Barcelona and Algiers, 75° at Patras and Malta and 74° at Sanguinaire; above 65° over southern Europe generally, and also in the south-east of England. Lowest, 39° at Archangel, 41° at Lemberg and Kiev, and 42° at Moscow; below 50° at most of the Russian, Austrian, and east German stations. Daily maxima below 60° in the north-west and extreme north of our Islands, and below 70° at all stations excepting two or three in the south-east of England. Thermometer exceeding 80° over Belgium, the west of France and the greater part of southern Europe, and reaching 86° at Clermont and 88° at San Fernando.

Barometer and Wind.

8 a.m.



6 p.m.



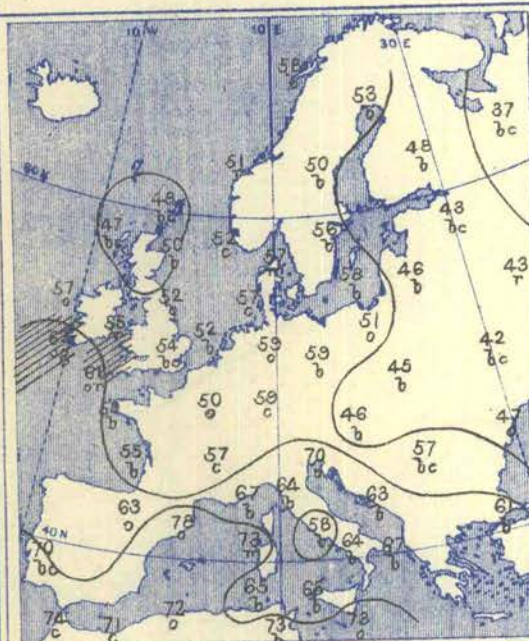
Wind moderate to strong from the North-Westward on our western coasts; light to moderate from the Southward or South-Westward in the east of our Islands and in the Netherlands; South-Easterly over Germany and the eastern shores of the North Sea; Southerly in Sweden and Finland. Calm in Austria; Northerly in Italy and also in the south of Russia; North-Easterly in Greece, with a gale at Athens. Variable over France and the Spanish Peninsula. Subsequently veering to the Westward on our eastern coasts and backing to the same quarter in the west.

Barometer highest, 30.3 ins. and upwards over Austria, eastern Germany, and the northern parts of the Baltic; 30.1 ins. and upwards in an anticyclone spreading northwards from central and southern Europe to western and northern Russia. Lowest, 29.6 ins. and less in a "V"-shaped depression with its centre off the north of Scotland; 29.9 ins. and less in another disturbance over central Russia. Depression off the Scotch coasts subsequently moving north-eastwards and barometer rising in all parts of our Islands. Disturbance over central Russia growing deeper.

Monday, 19th September.

Temperature and Weather.

8 a.m.

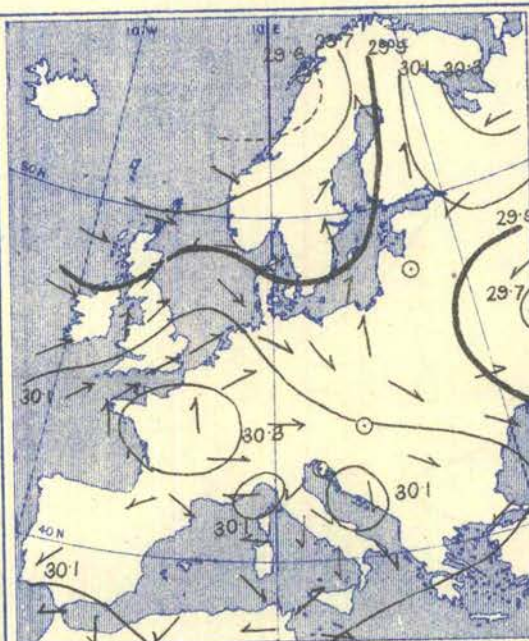


Weather in morning fine and bright (1) over the southern half of Europe, as well as the greater part of England and north Germany; (2) over Lapland, Finland, and the Baltic; changeable and unsettled elsewhere, with rain at several of our south-western and western stations, and the west of Norway, as well as over central Russia. Considerable rain later over the north-west of Norway and the north of Scotland; smaller quantities in Ireland, and showers locally over England and the neighbouring parts of the Continent.

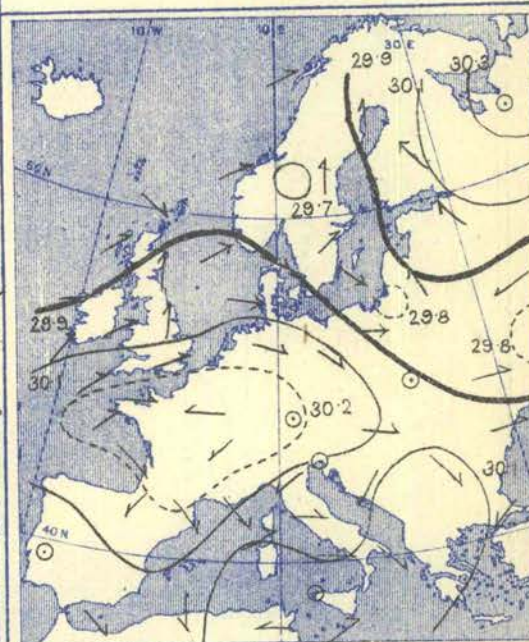
Temperature changing abruptly over western Europe, having fallen from 10° to 15° in many places; readings still above 70° over the southern and eastern parts of the Mediterranean and the west and north of Spain, but as low as (1) 37° at Archangel, and 42° to 44° over central Russia, 45° to 50° over central Europe; (2) 47° to 50° over the northern and eastern parts of Scotland, 50° at York and Liverpool. Falling to reach 70° later over our Islands, Germany, and the north of France, but touching 79° at Rochefort, and 80° at Perpignan; exceeding 80° in many parts of southern Europe.

Barometer and Wind.

8 a.m.



6 p.m.



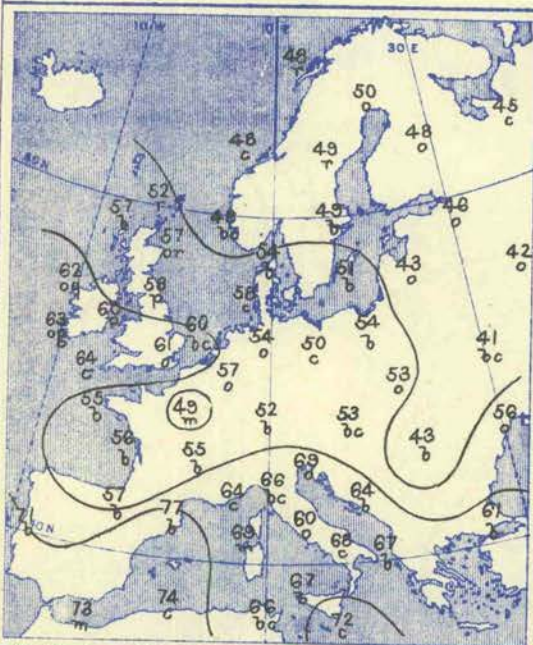
Wind (1) still light and anticyclonic over the Mediterranean and southern half of England, as well as over the White Sea and Finland; (2) South-Westerly to South-Easterly over our Islands, moderate to strong in force, and North-Easterly to North-Westerly and Westerly over Russia. No decided change later, but slight local variations from between South and West over the United Kingdom. Strong Westerly winds setting in over the south of Scandinavia, with a gale at Wisby.

Barometer in morning highest, 30.3 ins. and more to 30.1 ins. over France, the Bay of Biscay, the southern parts of England, and western Germany, as well as over the most northern parts of the Continent. Lowest, (1) below 29.6 ins. off the north-west of Norway, and below 29.9 ins. in secondary disturbances, both off our north-west coasts and over the south of Scandinavia; (2) 29.7 ins. and less to 29.8 ins. over central Russia. Changing fitfully later over the British Islands, but rising over Scandinavia.

Tuesday, 20th September.

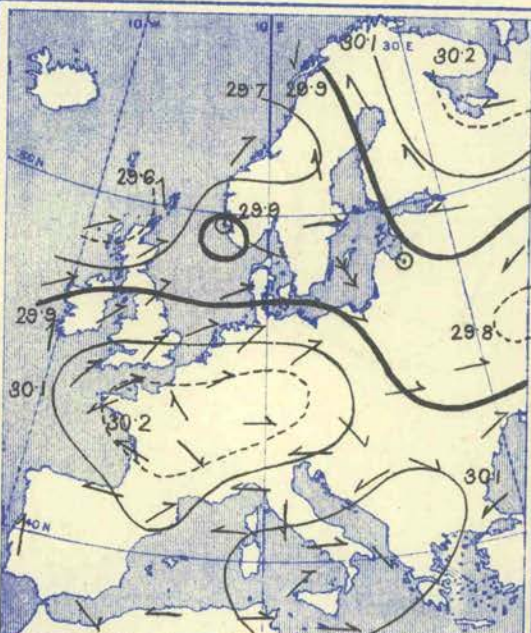
Temperature and Weather.

8 a.m.

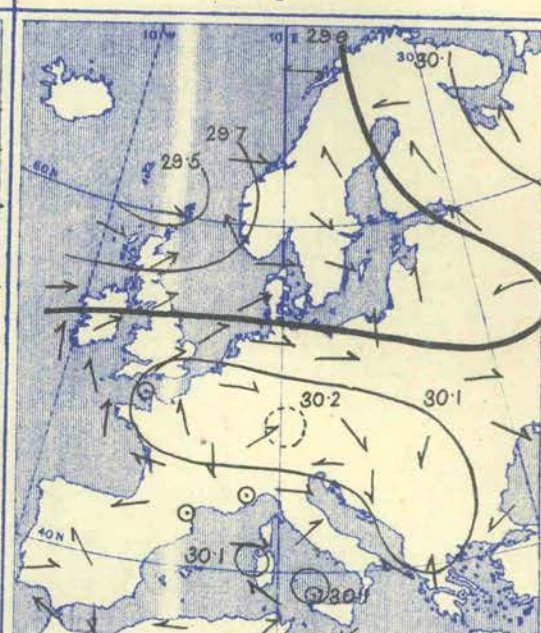


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the Mediterranean, southern and central Europe, very variable in our Islands, dull, squally and rainy over our north-western and northern districts and in the north-west of Norway, and dull over the northern half of Russia. Rain falling later in several parts of Scandinavia, Denmark and Germany, and in the northern parts of Ireland and over Scotland. Remaining dry over the more southern countries. Thunderstorms occurring in Algeria and lightning seen at Sicily at night.

Temperature risen decidedly over Great Britain, but changing fitfully elsewhere. Morning readings highest, 77° at Barcelona, and above 70° at many stations on the southern side of the Mediterranean, 69° to 64° on the northern shores; above 60° in many parts of the British Islands. Lowest, (1) 41° at Kiev, 42° at Moscow, and below 50° over the inland parts of Russia generally; (2) 48° on the west coast of Norway, 52° at Sunbush Head. Rising later to between 70° and 74° over the inland parts of England, but not exceeding 63° at Berlin and 60° at Paris. Exceeding 80° in many parts of southern Europe, and reaching 88° at Croisette and San Fernando.

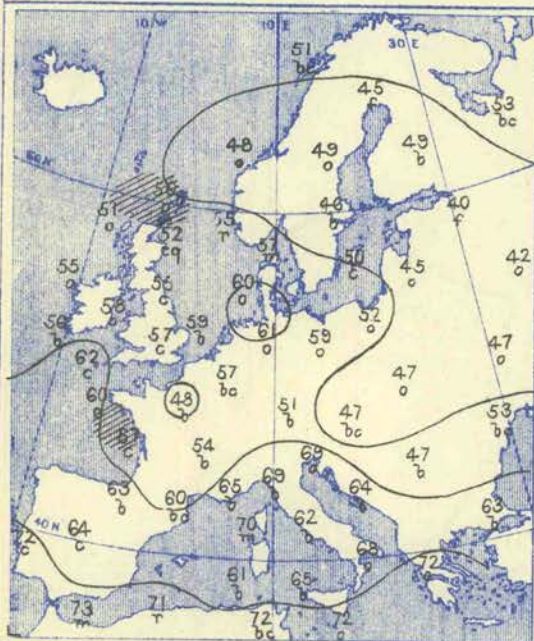
Wind (1) still light and anticyclonic over the Mediterranean and nearly all the southern half of Europe; (2) cyclonic over the more northern countries—Westerly to Southerly over our Islands, variable over Scandinavia and South-Easterly over Finland. Blowing a gale from North-West at Wisby, a fresh breeze from the same quarter at Riga, but a moderate breeze from South-East at Hangö. No important change occurring later in our Islands, but Southerly gale springing up in the south of Norway.

Barometer highest, 30.2 ins. and more to 30.0 ins. in a large anticyclone covering the southern half of Europe, and in another system over the White Sea and north of Russia. Lowest, below 29.6 ins. in a depression off the north-west of Scotland, and below 29.7 ins. in another over the northern half of Norway. Changing fitfully later, but inclined to rise on our north-west coasts.

Wednesday, 21st September.

Temperature and Weather.

8 a.m.

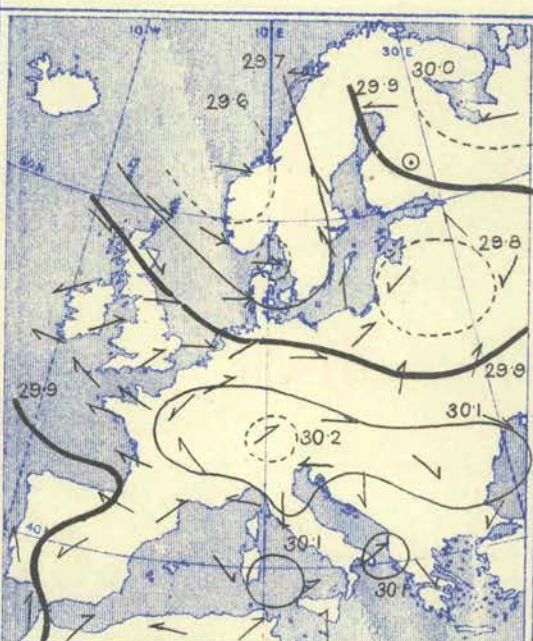


Weather in morning cloudy or dull over the greater part of north-western, northern, and central Europe, with fog on some parts of our own southern coasts, passing showers at Wick, and steady rain at Skudesnaes, Karlstad, and Copenhagen. Fine over France and the greater part of southern Europe, but cloudy over the Spanish Peninsula. Slight rain falling later at some of our own north-western and extreme northern stations, and larger amounts in Scandinavia. Solar halo seen at Jersey, and lightning at Biarritz; thunderstorm occurring at Oran.

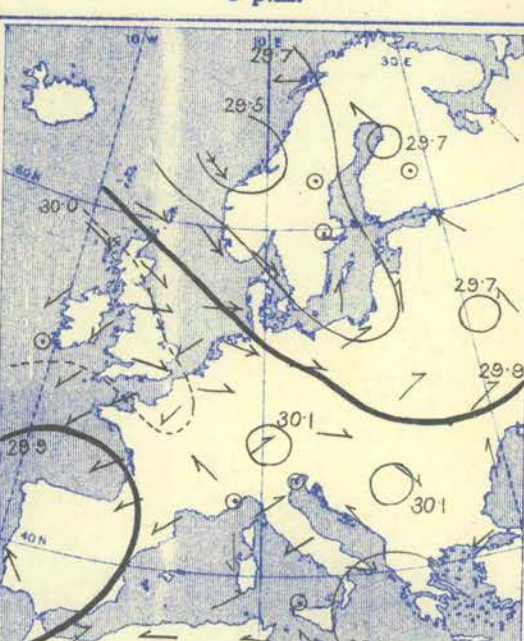
Temperature fallen in our Islands, but risen at most of the Continental stations. Morning readings highest, 78° at Barcelona, 73° at Nemours and Oran, and 72° at Lisbon, Malta, and Sfax; above 65° in most parts of southern Europe. Lowest, 39° at Uleaborg, 40° at St. Petersburg, 42° at Moscow, and 45° at Haparanda, Hangö, and Riga. Rising during day to 70° and upwards over the central and southern parts of England, and to 76° at Cambridge; exceeding 80° in most parts of southern Europe, and reaching 91° at Cape Bearn, and 93° at Bilbao.

Barometer and Wind.

8 a.m.



6 p.m.



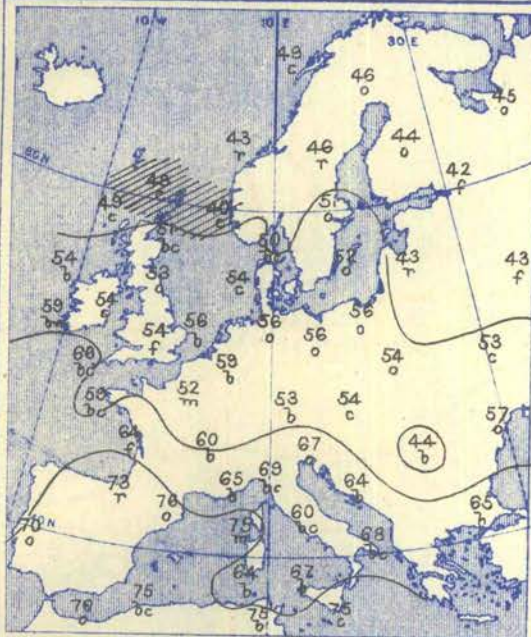
Wind light to moderate from the Westward or North-Westward over the northern and eastern parts of our Islands, and strong from the same quarters on the eastern shores of the North Sea; Southerly or South-Easterly in Sweden and Finland, and Easterly in the north of Scandinavia. Light from the Eastward over France and our own southern and extreme western coasts. Variable in Italy and Austria; Northerly or North-Westerly in Greece; South-Westerly in the south of Russia. Subsequently increasing to a gale from the North-Westward on the Norwegian coasts; no important change occurring elsewhere.

Barometer highest, 30.1 ins. and upwards in a long band stretching eastwards from France to Turkey and the Black Sea, and also in smaller areas lying over the south of Italy and neighbouring parts of the Mediterranean. Lowest, 29.6 ins. and less in a depression over the west of Norway, and also in a well-marked secondary system over the Skager Rack and the north of Denmark; 29.8 ins. and less in a shallow area over western and central Russia. Depressions all moving eastwards later, and new anticyclone gradually forming over our Islands.

Thursday, 22nd September.

Temperature and Weather.

8 a.m.

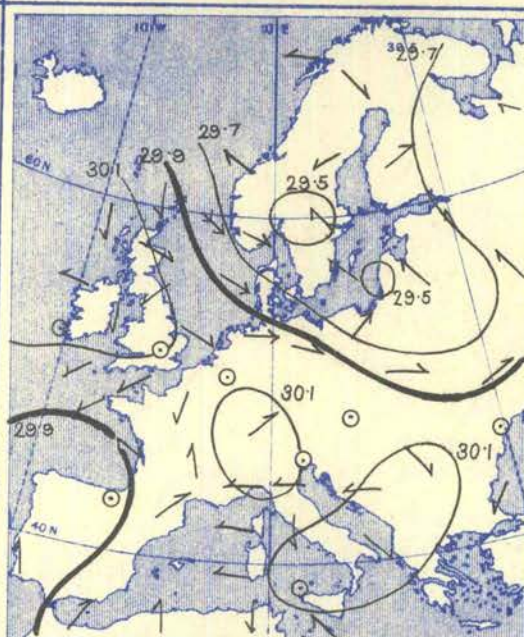


Weather in morning fair or fine over western Europe generally, but with fog or mist in several parts of the United Kingdom. Dull over the Spanish Peninsula and the extreme south-west of France, with rain at Biarritz. Fine in Italy, Austria, Greece, Turkey, and the south of Russia; dull in Scandinavia, Germany and northern Russia, with rain at Hernösand, Karlstad and Christiansund. Rain falling later in many parts of northern and central Europe, and thunderstorm occurring at Biarritz and Algiers.

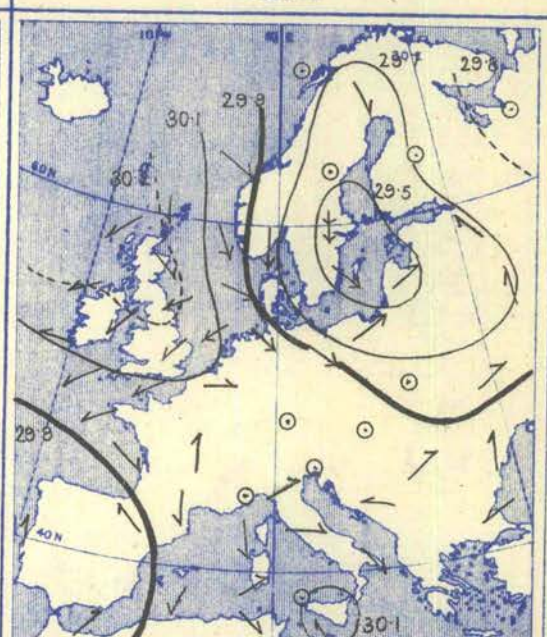
Temperature fallen in our Islands and also in Norway, Denmark and Germany, risen in most other countries. Morning readings highest, 77° at Bilbao, 76° at Sanguinaire and Sfax; above 65° in many parts of southern Europe. Lowest, 42° at St. Petersburg, 43° at Riga, Moscow and Christiansund, and 44° at Kuopio and Hermanstadt; below 50° at several of our own northern stations. Daily maxima below 60° on many parts of our northern coasts, but thermometer exceeding 65° in the south, and reaching 75° at Jersey. Exceeding 80° over France and southern Europe, and touching 90° at Bordeaux. Ground frost occurring over the central parts of Great Britain at night.

Barometer and Wind.

8 a.m.



6 p.m.

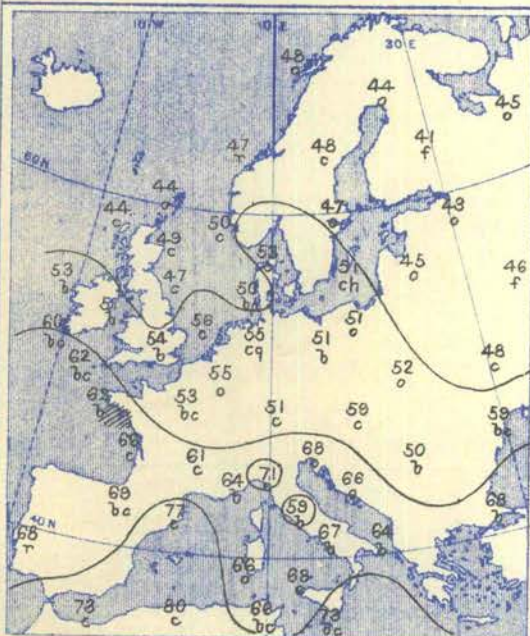


Wind light to moderate from the North-Westward on the eastern coasts of Great Britain, and strong from the same quarter on the eastern shores of the North Sea, with a gale at Skudesnaes; moderate to fresh from the Westward in Germany, light from the South-Westward in the south of Russia; variable over northern Russia, Easterly in the north of Scandinavia. Light to moderate from the North-Eastward on our own western and southern coasts, and also in the north of France. Variable in Italy and the south of France. Northerly and North-Westerly gales springing up later over Denmark and Sweden. Barometer highest, 30.1 ins. and upwards in three areas—one lying over our Islands, another over Switzerland and the neighbouring parts of Germany and Italy, and the third over the southern parts of Sweden, and less in a well-marked depression over the depression subsequently moving south-eastwards, and high-pressure area over our Islands spreading over the greater part of north-western Europe.

Friday, 23rd September.

Temperature and Weather.

8 a.m.

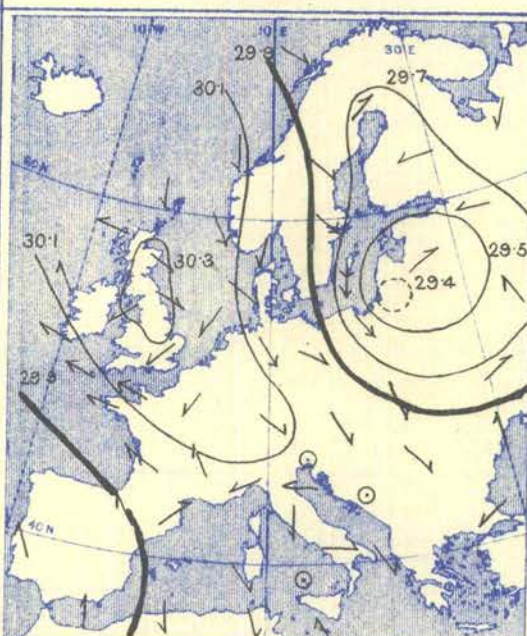


Weather in morning fair or fine over western and southern Europe generally, but with haze or fog on several parts of our own coasts. Cloudy or dull over the northern and central countries, with rain at Christiansund, and hail at Wisby; cloudy also over the Spanish Peninsula, with rain at Lisbon. A little rain falling later in several parts of northern and central Europe, and a considerable quantity at Madrid, but weather in our Islands remaining very dry.

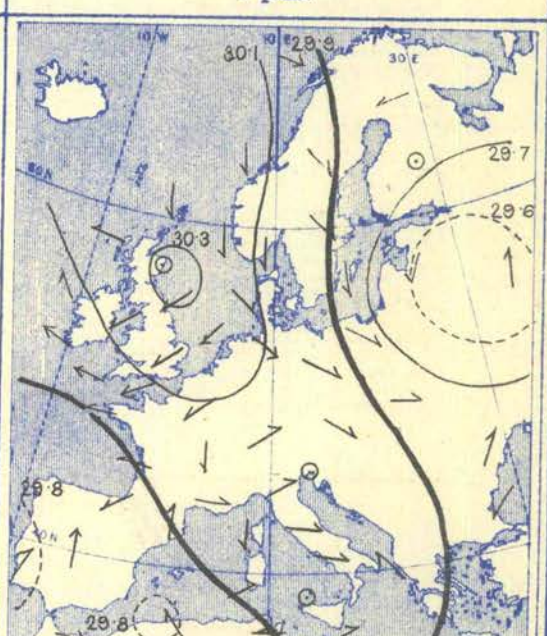
Temperature falling over north-western and northern Europe, changed irregularly elsewhere. Morning readings highest, 80° at Algiers, 77° at Barcelona, and 75° at Sanguinaire and Sfax; above 65° in most parts of southern Europe. Lowest, (1) 41° at Kuopio, 42° at Helsingfors, and 43° at St. Petersburg; (2) 44° at Sumburgh Head, Stornoway, and Nairn, and 46° at Loughborough. Daily maxima below 60° at most of our own northern stations, but thermometer exceeding 65° in the southern parts of the Kingdom; exceeding 80° over southern Europe generally, and reaching 88° at Cape Béarn. Ground frost occurring over the inland parts of Great Britain at night.

Barometer and Wind.

8 a.m.



6 p.m.



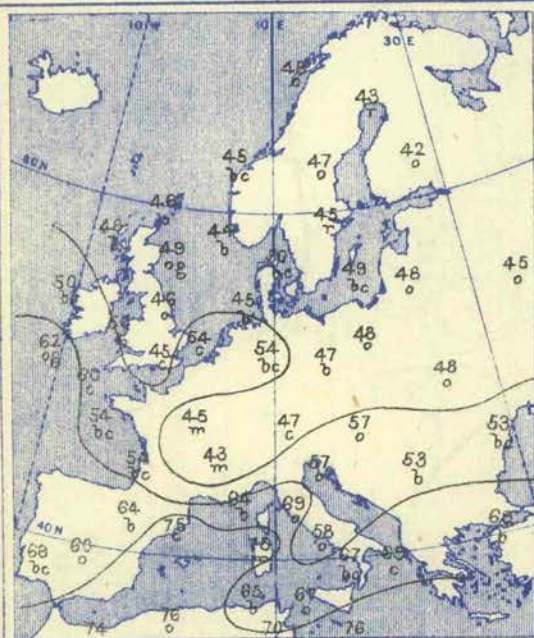
Wind light to moderate from the Northward or North-Westward on the east coasts of Great Britain; North-Easterly or Easterly over the south of England and the greater part of France, with a moderate gale at Scilly; fresh from the South-Eastward on the Irish coasts. Northerly or North-Westerly over Scandinavia, Denmark, Germany, and Austria, and strong in force in many places, with a whole gale at Wisby; light from the South-Westward in the south of Russia, and from the Eastward or North-Eastward over the northern parts of that country. No important change occurring later.

Barometer highest, 30.3 ins. and upwards over the northern parts of Great Britain; 30.1 ins. and upwards in an anticyclone covering nearly the whole of north-western Europe. Lowest, 29.4 ins. and less in a well-marked depression with its centre near Memel; 29.3 ins. and less (apparently) in a shallow disturbance off the Portuguese coasts. Anticyclone beginning to break up later, and barometer falling in most parts of western Europe. Depression over the Baltic Provinces moving eastwards.

Saturday, 24th September.

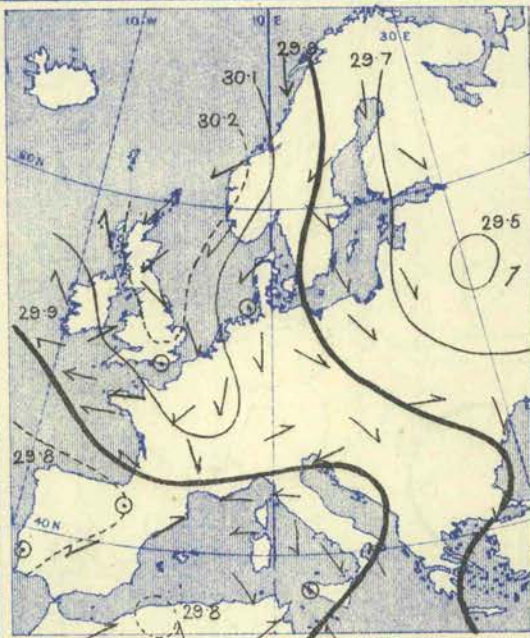
Temperature and Weather.

8 a.m.

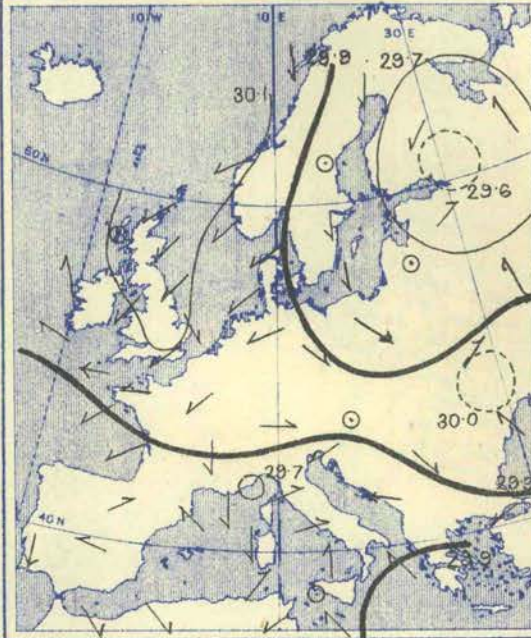


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of our Islands and the Continent, but dull in the eastern parts of Great Britain, and foggy or misty on our western coasts. Dull also in Sweden, Russia, and Austria, with rain at Stockholm. Slight rain falling later at Yarmouth and Valencia (Ireland), and larger amounts in many parts of northern and central Europe, but weather remaining very dry over the western countries as a whole. Thunderstorms occurring in Algeria.

Temperature fallen in most places. Morning readings highest, 76° at Algiers and Malta, 75° at Barcelona and Sanguinaire, and 74° at Oran; above 65° over southern Europe generally, and above 60° in the south-west of Ireland. Lowest, (1) 40° at Helsingfors, and 42° at Kuopio; (2) 41° at Nairn, and 42° at Oxford; (3) 43° at Belfort, and 45° at Paris. Daily maxima below 60° at most of our own northern stations, and below 65° even in the south; thermometer exceeding 70° in the west of France, exceeding 80° in several parts of southern Europe, the highest readings of all being 87° at Bordeaux, and 88° at Palermo.

Wind light to fresh from the Eastward or North-Eastward over the Channel and the greater part of France; moderate from the South-Eastward in Ireland and the west of Scotland. Northerly (North-Easterly to North-Westerly) over the east of our Islands, the Netherlands, and the greater part of northern Europe. Westerly or North-Westerly in Germany and Austria; variable in Italy and the south of France. No important change occurring during day.

Barometer highest, 30.2 ins. and upwards over the west of Norway and the northern parts of Great Britain; 30.0 ins. and upwards in an anticyclone covering nearly the whole of north-western Europe. Lowest, 29.6 ins. and less in a large depression over northern and central Russia; 29.8 ins. and less in a shallow area over the north of Spain, and also in another system over Algeria. Anticyclone breaking up slowly later, but general distribution of pressure remaining unchanged.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the beginning of the week barometrical pressure was highest over the Baltic, Eastern Germany, and Austria, and lowest in a "V"-shaped depression which passed across our Islands, the latter system occasioning rain over nearly the whole of western Europe, and strong North-Westerly winds on many parts of our western coasts. The high pressure area over central Europe soon broke up, but a new anticyclone advanced over France from the Atlantic, and eventually settled down over the more central and southern countries, the weather over the United Kingdom being again affected for a time by a depression which appeared off our northern coasts on the 20th, and which ultimately moved slowly eastwards and south-eastwards across Scandinavia to central Russia. In the rear of this disturbance a strong gale from North or North-West sprang up over the Baltic and the southern parts of Scandinavia, the weather being showery and unsettled over northern Europe generally.

A new anticyclone was now formed over the United Kingdom, the system eventually spreading over nearly the whole of north-western Europe, and occasioning a renewal of fair dry weather in our Islands and France. The prevailing winds at this time were mostly from between North and East, and a gradual fall of temperature took place over the United Kingdom, with a ground frost at many of the inland stations on the night of the 23rd.

At the close of the week the barometer was falling generally, and the anticyclone appeared to be breaking up; the movements were, however, very gradual, and in our Islands the weather remained extremely dry.

Over southern Europe the weather was upon the whole fine and warm, but in Spain a rather decided change took place after the 20th, heavy rain being experienced in many parts of the country.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 224.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	10.7	?	13	?	WESTBOURNE (Emsworth)	43.4*	+ 6.6	51*	+ 9
STRATHPEFFER SPA	30.5	+ 2.7	38	+ 4	WATERGATE (Emsworth)	37.3	?	44	?
EDINBURGH	32.4	+ 8.3	38	+10	BRIGHTON	41.2	+ 3.9	48	+ 5
MORPETH	20.8	?	24	?	EASTBOURNE	47.8	+10.0	56	+12
NEWCASTLE-ON-TYNE	15.9	?	19	?	VENTNOR HOSPITAL	49.9	?	59	?
OSWALDKIRK (Yorkshire)	20.8	- 6.1	24	- 7	SOUTHPORT	32.8	?	40	?
HOLLESLEY BAY	29.8	?	35	?	COLWYN BAY	42.1	?	50	?
SHEFFIELD	28.9	?	31	?	TENBY	51.4*	+16.2	60*	+19
WORKSOP	21.6	- 6.0	25	- 7	NEWQUAY	54.7	+19.5	64	+23
THURCASTON (Leicestershire)	35.7	+ 7.9	42	+10	TORQUAY	46.7*	+ 9.9	55*	+13
PLUMSTEAD COMMON	28.7	?	34	?	GUERNSEY	67.5*	+20.5	79*	+32
MARGATE	31.5	- 1.5	37	0					

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 39.]
Third Series.

WEEK ENDING SATURDAY, OCTOBER 1st, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 230.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	67	31	56.5	42.6	49.2	0 (average)	Day-deg. 50	Day-deg. - 9	Day-deg. 0	Day-deg. - 2	Day-deg. 1918	Day-deg. +228	Day-deg. 395	Day-deg. -232
	1. SCOTLAND, EAST	66	32	56.8	42.5	49.3	0 (average)	51	- 15	0	- 2	2217	+163	427	- 226
	2. ENGLAND, N.E.	66	36	58.8	44.1	51.1	1 below	64	-17	0	0	2424	+222	333	- 216
	3. ENGLAND, EAST	69	31	62.1	42.0	51.6	2 below	67	- 22	0	0	2723	+178	410	- 207
	4. MIDLAND COUNTIES	68	29	60.9	39.1	49.5	3 below	65	- 22	8	+ 7	2706	+166	412	- 208
	5. ENGLAND SOUTH	68	33	62.8	45.2	53.6	1 below	81	- 16	0	0	3001	+243	234	- 243
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	61	32	55.8	44.8	50.1	1 below	57	- 15	0	0	2379	+236	245	- 217
	7. ENGLAND, N.W.	63	37	57.8	44.4	50.8	2 below	62	- 21	0	0	2583	+240	215	- 244
	8. ENGLAND, S.W.	69	33	60.7	46.5	53.3	1 below	79	- 12	0	0	2851	+274	205	- 156
	9. IRELAND, NORTH	66	37	58.7	45.9	52.0	1 above	70	+ 1	0	0	2514	+253	227	- 168
	10. IRELAND, SOUTH	66	35	61.4	48.5	54.6	2 above	88	+ 8	0	- 1	2917	+361	165	- 135
	—CHANNEL ISLANDS	67	49	63.6	53.0	58.0	1 above	112	+ 6	0	0	3342	+449	55	- 93

Rainfall.

Bright Sunshine.

DISTRICTS. (See p. 230.)	For the Week.					From January 2nd, 1898.				For the Week.					From January 2nd, 1898.			
	No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.
Principal Wheat-producing Districts.		10ths of in.	10ths of in.			Ins.	Ins.											
0. SCOTLAND, NORTH	5	15	5 more	191	+15	42.1	+8.0	16	-4	19	-5	1062	+127	29	+4			
1. SCOTLAND, EAST	4	10	2 more	145	+1	18.9	-3.9	13	-11	16	-13	1170	+64	32	+2			
2. ENGLAND, N.E.	2	3	4 less	124	-10	13.9	-4.9	21	-5	26	-6	1090	+11	31	+1			
3. ENGLAND, EAST	1	1	5 less	108	-22	13.0	-5.6	38	+6	47	+9	1330	+1	37	0			
4. MIDLAND COUNTIES	3	6	1 less	112	-16	13.5	-6.8	32	+6	40	+8	1243	+80	35	+2			
5. ENGLAND, SOUTH	2	7	1 more	102	-21	12.5	-7.5	38	+5	46	+7	1346	+16	39	0			
Principal Grazing, &c., Districts.																		
6. SCOTLAND, WEST	4	15	4 more	166	-15	30.4	-3.6	11	-16	13	-20	1183	+47	34	+2			
7. ENGLAND, N.W.	3	6	3 less	139	0	23.8	-0.5	26	0	32	0	1275	+121	36	+3			
8. ENGLAND, S.W.	4	8	2 less	124	-15	20.4	-6.6	37	+5	46	+8	1501	+80	42	+2			
9. IRELAND, NORTH	5	18	9 more	176	+12	26.4	-0.3	29	+5	35	+6	1132	+59	31	+1			
10. IRELAND, SOUTH	4	10	2 more	138	-10	25.8	-2.0	36	+7	44	+9	1278	+60	36	+2			
—CHANNEL ISLANDS	4	4	5 less	140	-7	15.7	-6.5	47	+6	57	+8	1719	+121	50	+4			

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather continued fine and dry during the earlier days of the period, but subsequently became decidedly unsettled, with heavy falls of rain in the west and north and in parts of southern England. In the east and south-east of England, however, the rainfall was again very slight and at some stations almost entirely absent. By the end of the week the weather had again become fine and dry generally.

Temperature was a little below the mean in most districts, but slightly above it in Ireland as well as in the Channel Islands. The highest of the maxima occurred either on September 26th or October 1st, and ranged from 69° in England E. and S.W. to 61° in Scotland W. The lowest of the minima, which were also generally recorded on September 26th, ranged from 29° in the Midland Counties, 31° in England E. and Scotland N., and 32° in Scotland E. and W., to 37° in England N.W. and Ireland N., and to 49° in the Channel Islands. Some sharp ground frosts were experienced over the inland districts.

Rainfall was again less than the mean in nearly all the English districts, but exceeded it in Ireland and Scotland, and also in England S. In Ireland N. the excess was very large. The rain on Thursday night was very heavy in the south locally. The greatest falls at any individual stations were 1.58 ins. at Shaftesbury, 1.56 ins. at Westbourne (Sussex), 1.13 ins. at Hurst Castle, and 0.98 in. at Cranley.

Bright Sunshine again exceeded the mean over the greater part of the Kingdom, but was much below it in Scotland and considerably below it in England N.E. The percentage of the possible duration ranged from 57 in the Channel Islands, and 47 in England E., to 26 in England N.E. and to between 19 and 13 in Scotland.

Barometer and Wind.—During the earlier part of the week the distribution of pressure continued anticyclonic, with variable or North-Easterly airs in the east and south-east, and light Southerly and South-Easterly winds in the west. By Tuesday, however, a "V"-shaped depression had appeared in the west and, travelling slowly eastwards on Wednesday, finally dispersed. This system was followed by a rather deeper disturbance which advanced over Ireland from the Atlantic on Thursday, and afterwards moved south-eastwards over England and France; it caused Southerly gales in the English Channel, Northerly and North-Westerly gales at many of our western stations, and very considerable or heavy rains both in Ireland and some parts of Scotland and southern England. By Saturday morning the conditions had again become anticyclonic, with light South-Westerly winds in the north and light or moderate North-Easterly breezes in the south.

II.—DATA from which the SUMMARY on page 229 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.								
								Below 42° F.								
0. SCOTLAND, N.	Sumburgh Head	58	43	53.9	45.9	49.7	+ 1.1	54	0	6	1.69	+ 0.87	*	*	*	*
	Stornoway	61	36	56.6	40.9	48.4	- 0.3	49	3	5	1.61	+ 0.59	17.2	- 5.5	21	- 6
	Wick	65	42	57.6	44.7	50.8	+ 2.3	62	0	4	0.96	+ 0.38	*	*	*	*
	Laing	67	34	58.8	39.9	48.9	+ 1.3	57	6	5	1.06	+ 0.24	*	*	*	*
	Glencarron	60	34	55.3	41.3	48.0	- 0.4	45	2	5	2.15	+ 0.33	*	*	*	*
	Fort Augustus	60	31	56.4	42.1	48.9	- 1.5	48	0	3	1.16	+ 0.19	18.1	+ 1.3	22	+ 2
1. SCOTLAND, E.	Fort William	59	36	56.1	43.3	49.4	- 1.2	52	0	4	1.54	+ 0.79	18.8	- 2.9	23	- 2
	Nairn	66	32	58.1	40.0	48.6	- 1.4	55	6	4	1.17	+ 0.53	*	*	*	*
	Aberdeen	66	37	56.7	44.1	50.1	- 0.3	57	0	3	0.11	- 0.62	13.2	- 12.6	16	- 16
	Braemar	61	32	52.9	39.6	45.9	- 0.9	37	7	4	0.47	- 0.27	18.8†	- 5.1†	23†	- 5†
	Ochertyre	63	35	57.1	44.7	50.6	+ 0.6	60	0	3	2.28	+ 1.40	*	*	*	*
	Leith	62	38	58.6	44.1	51.0	- 0.9	63	0	4	1.03	+ 0.49	*	*	*	*
2. ENGLAND, N.E.	Marchmont	64	34	57.1	42.6	49.5	+ 0.1	53	0	4	0.69	- 0.11	10.3	- 13.4	13	- 16
	Alnwick Castle	61	36	56.8	41.5	48.8	- 1.7	50	1	3	0.16	- 0.56	*	*	*	*
	Durham	66	38	59.4	43.0	50.8	- 0.3	62	0	1	0.25	- 0.40	21.2	- 3.0	26	- 4
	Shields	64	41	57.9	44.1	50.7	- 0.9	61	0	1	0.07	- 0.51	*	*	*	*
	Scarborough	62	40	58.6	45.8	51.9	- 0.6	69	0	0	—	- 0.68	33.1	?	41	?
	York	64	36	60.0	41.4	50.3	- 2.0	61	2	3	1.06	+ 0.46	18.5	- 7.5	23	- 8
3. ENGLAND, E.	Spurn Head	65	45	63.0	49.0	54.2	+ 0.3	85	0	2	0.06	- 0.44	*	*	*	*
	Hillington	67	33	63.1	40.7	51.3	- 1.4	71	4	2	0.16	- 0.49	37.5	+ 8.7	46	+ 11
	Yarmouth	62	42	59.7	48.4	53.8	- 0.1	83	0	1	0.01	- 0.69	*	*	*	*
	Geldeston	64	33	62.2	41.9	51.6	- 2.0	68	0	2	0.09	- 0.53	41.5	+ 7.7	51	+ 10
	Cambridge	69	33	64.6	39.3	51.3	- 2.1	76	8	0	—	- 0.54	29.0	- 1.6	36	- 1
	Rothamsted	63	31	61.0	39.8	49.9	- 2.5	65	6	2	0.43	- 0.25	41.4	+ 11.4	51	+ 15
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	66	34	62.0	38.7	49.8	- 2.2	68	9	2	0.42	- 0.18	*	*	*	*
	Loughborough	68	29	62.7	37.6	49.6	- 3.2	72	12	4	0.49	- 0.13	*	*	*	*
	Stamford (Duddington)	66	33	62.9	37.7	49.7	- 3.7	72	12	2	0.36	- 0.36	*	*	*	*
	Cheadle	61	39	57.2	43.1	49.8	- 1.3	55	0	4	0.85	+ 0.17	*	*	*	*
	Shirley (near Solihull)	63	29	60.4	36.5	47.9	- 4.3	64	15	3	0.80	?	*	*	*	*
	Churchstoke	65	29	58.8	38.7	48.2	- 2.4	57	9	4	0.68	- 0.02	34.0	+ 6.7	42	+ 9
	Hereford	64	29	60.1	38.4	48.7	- 3.6	62	10	3	0.54	- 0.14	*	*	*	*
	Cirencester	64	35	61.3	41.6	51.0	- 0.5	65	1	3	0.76	+ 0.03	36.6	+ 9.7	45	+ 12
	Oxford	66	35	62.9	39.4	50.6	- 2.5	71	7	3	0.32	- 0.35	39.0	+ 9.2	48	+ 12
5. ENGLAND, S.	London	67	36	63.9	41.7	52.3	- 1.5	73	1	1	0.12	- 0.48	32.3†	+ 7.8†	40†	+ 9†
	North Foreland	63	44	60.9	51.1	55.8	+ 0.5	97	0	2	0.22	?	*	*	*	*
	Cranley	67	33	63.1	39.7	50.8	- 3.5	71	6	2	0.99	?	*	*	*	*
	Dungeness	65	38	63.0	46.6	54.4	- 1.0	87	0	3	0.25	- 0.47	*	*	*	*
	Hastings (St. Leonards)	64	42	61.7	47.0	54.0	- 1.0	84	0	2	0.34	- 0.44	37.6	+ 2.0	46	+ 3
	Southampton	68	38	64.7	43.4	53.5	- 1.3	81	0	2	0.93	+ 0.18	39.5	+ 7.8	48	+ 9
	Hurst Castle	66	43	63.7	47.1	55.0	- 0.6	91	0	3	1.25	+ 0.50	*	*	*	*
	Shaftesbury	63	42	61.0	45.2	52.7	+ 0.6	75	0	3	1.65	+ 0.77	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	60	41	56.4	45.4	50.6	+ 0.1	63	0	5	2.64	+ 0.86	*	*	*	*
	Glasgow	57	43	54.2	45.9	49.9	+ 0.3	55	0	4	1.81	+ 0.96	2.6	- 18.0	3	- 23
	Ardrossan	58	42	55.9	45.6	50.5	- 1.4	60	0	4	1.34	+ 0.56	*	*	*	*
	Glenlee	58	32	54.9	40.2	47.2	- 3.1	44	5	5	1.47	+ 0.25	*	*	*	*
	Gilerux (Cumberland)	61	41	56.5	45.4	50.7	- 0.4	61	0	5	0.36	?	13.0	?	16	?
	Douglas (Isle of Man)	60	41	57.1	46.5	51.6	- 0.2	67	0	3	1.13	+ 0.32	17.2	- 14.7	21	- 18
7. ENGLAND, N.W.	Stonyhurst	59	39	56.3	43.5	49.6	- 1.9	53	0	3	0.61	- 0.53	25.4	- 2.2	31	- 2
	Blackpool	61	37	56.4	43.5	49.6	- 3.1	53	0	4	0.77	- 0.17	24.7	- 1.8	30	- 2
	Manchester (Prestwich)	62	37	58.0	41.7	49.5	- 2.1	54	1	2	0.33	- 0.65	21.5	?	27	?
	Liverpool Obsy. (Bidston)	60	41	57.6	43.7	50.3	- 2.9	58	0	3	0.69	- 0.15	*	*	*	*
	Llandudno	63	43	59.0	46.9	52.7	- 0.5	75	0	3	0.77	- 0.03	30.6	+ 5.3	38	+ 7
	Holyhead	62	44	59.4	47.1	53.0	- 1.4	77	0	3	0.54	- 0.28	*	*	*	*
8. ENGLAND, S.W.	Llandoverly	69	33	62.7	38.4	50.0	- 1.3	71	10	4	0.50	- 0.65	*	*	*	*
	Pembroke	60	48	58.9	50.6	54.6	+ 0.1	88	0	3	0.76	- 0.12	41.4	+ 10.3	51	+ 14
	Clifton	63	41	58.9	45.2	51.7	- 1.3	68	0	4	0.89	+ 0.04	*	*	*	*
	Arlington (N. Devon)	63	40	59.3	44.1	51.3	- 1.3	65	0	5	1.27	+ 0.09	*	*	*	*
	Cullompton	66	36	62.1	40.9	51.0	- 3.1	68	3	4	0.95	+ 0.07	34.1	+ 4.6	42	+ 7
	Falmouth	62	47	60.7	52.9	56.6	+ 1.6	102	0	4	0.45	- 0.66	37.9	+ 4.9	46	+ 7
	Plymouth	65	45	61.4	48.8	54.8	+ 0.0	90	0	3	0.65	- 0.26	35.7	+ 3.7	44	+ 5
	Prawle Point	65	46	61.6	51.0	56.1	+ 1.0	99	0	2	0.53	- 0.18	*	*	*	*
9. IRELAND N.	Malin Head	62	44	57.6	47.9	52.5	+ 0.7	74	0	5	1.62	?	*	*	*	*
	Londonderry	66	41	59.3	45.2	51.9	+ 0.3	69	0	5	2.35	+ 1.45	*	*	*	*
	Edenfel (Omagh)	63	39	57.3	42.6	49.6	+ 0.2	53	0	4	1.72	+ 0.87	*	*	*	*
	Belmullet	66	47	60.7	50.3	55.3	+ 2.9	93	0	6	1.31	+ 0.22	*	*	*	*
	Markree Castle	65	40	59.8	45.5	52.3	+ 1.7	72	0	4	1.67	+ 0.75	26.9	+ 4.3	33	+ 6
	Armagh	61	37	58.4	42.6	50.1	- 0.5	57	0	4	1.47	+ 0.83	30.0	+ 4.0	37	+ 6
	Donaghadee	61	39	57.9	47.0	52.2	+ 0.2	71	0	4	2.66	+ 2.03	*	*	*	*
	Edgeworthstown	?	?	?	?	?	?	?	?	4	1.25	+ 0.57	*	*	*	*
10. IRELAND S.	Dublin	63	43	60.6	45.0	52.4	- 0.4	73	0	4	0.41	- 0.12	34.8	+ 4.0	43	+ 6
	Parsonstown	64	41	61.0	46.3	53.3	+ 2.5	79	0	5	0.68	- 0.08	35.0	+ 7.0	43	+ 10
	Kilkenny	63	35	60.3	43.3	51.4	- 1.2	66	0	4	0.77	+ 0.19	*	*	*	*
	Roche's Point	65	48	60.9	52.3	56.4	+ 2.6	101	0	3	1.48	+ 0.66	*	*	*	*
	Valencia	66	50	62.1	53.4	57.5	+ 3.1	109	0	5	1.32	+ 0.33	36.9	+ 8.2	46	+ 11
	Killarney	66	41	63.3	50.4	56.5	+ 3.6	102	0	4	1.66	?	*	*	*	*
	Foynes	?	45	?	48.8	?	?	?	?	5	0.60	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	52	62.4	53.3	57.6	+ 1.1	109	0	4	0.29	- 0.69	52.9	?	65	?
	Jersey	67	49	64.7	52.7	58.4	+ 0.8	115	0	4	0.52	- 0.36	44.6	+ 6.6	54	+ 7

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

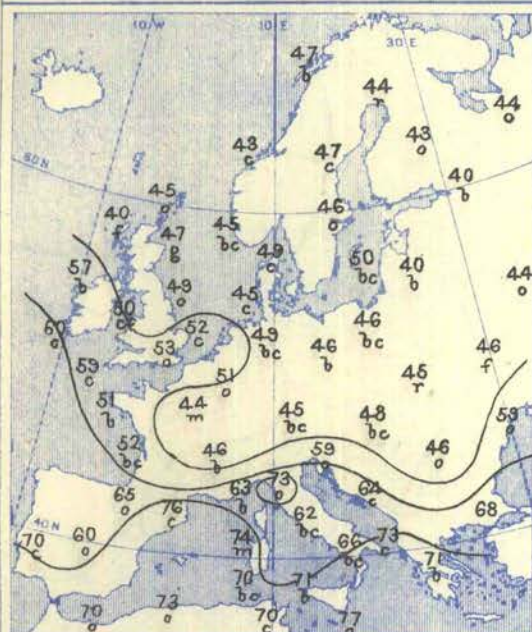
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 25th September.

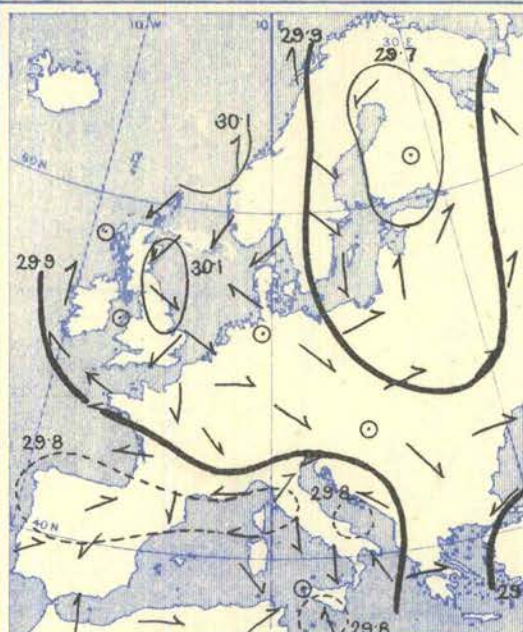
Temperature and Weather.

8 a.m.

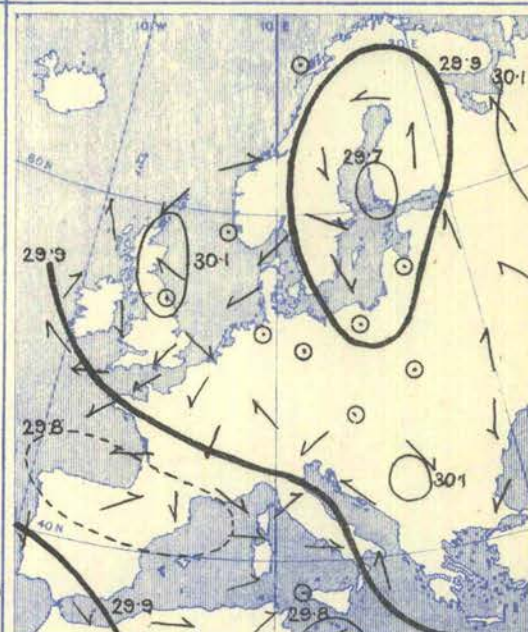


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over Europe as a whole, but dull in the north-eastern parts of Great Britain and foggy or misty on our north-west coasts. Dull also at most of the Russian and Austrian stations, with rain at Uleaborg, Hangö and Lemberg. Rain falling later in many parts of northern, eastern and central Europe, but weather in our Islands remaining very dry.

Temperature risen over England and also in Italy, but fallen in most other countries. Morning readings highest, 77° at Malta, 76° at Barcelona, 74° at Sanguinaire, and 73° at Leghorn, Brindisi and Algiers; above 65° in many parts of southern Europe. Lowest, (1) 40° at Stornoway and Nairn and 43° at Christiansund; (2) 40° at St. Petersburg and 43° at Kuopio; (3) 40° at Belfort and 44° at Paris. Daily maxima below 55° on many parts of our own northern coasts and below 65° in most other parts of the Kingdom. Thermometer exceeding 70° in the west of France, and exceeding 80° at most of the Spanish and Italian stations, the highest reading of all being 86° at Barcelona. Ground frost occurring at night over the inland parts of Great Britain.

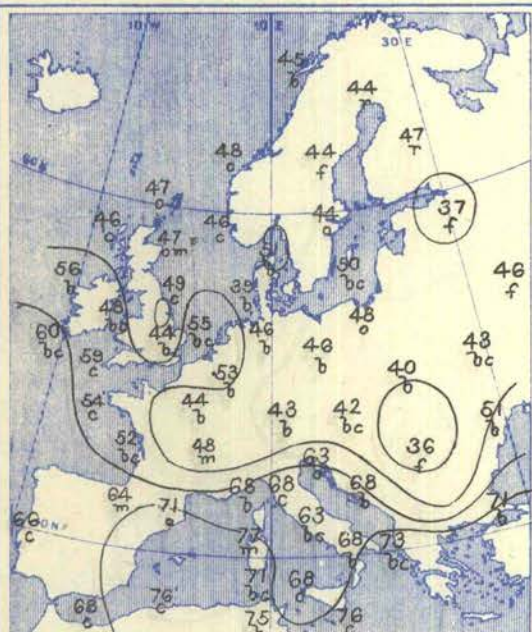
Wind light to moderate from the Eastward or North-Eastward over the south of England and the greater part of France, and from the South-Eastward in Ireland; variable or Southerly in the north of Scotland and the west of Norway. Light from the North-Westward on the east coasts of England, and from the same quarter or from North over Sweden, Denmark and north Germany; South-Westerly or Southerly over the central and southern parts of Russia. Light and variable over southern Europe generally. No important change occurring during day.

Barometer highest, 30.1 ins. and upwards in the east of Scotland and the north-east of England, and also in the west of Norway; 30.0 ins. and upwards in an anticyclone covering the greater part of north-western Europe. Lowest, 29.7 ins. and less in a shallow depression over Finland; 29.8 ins. and less in several still shallower areas lying over various parts of southern Europe and the Mediterranean. No decided change occurring later, but depression over Finland moving south-westwards and partially filling up.

Monday, 26th September.

Temperature and Weather.

8 a.m.

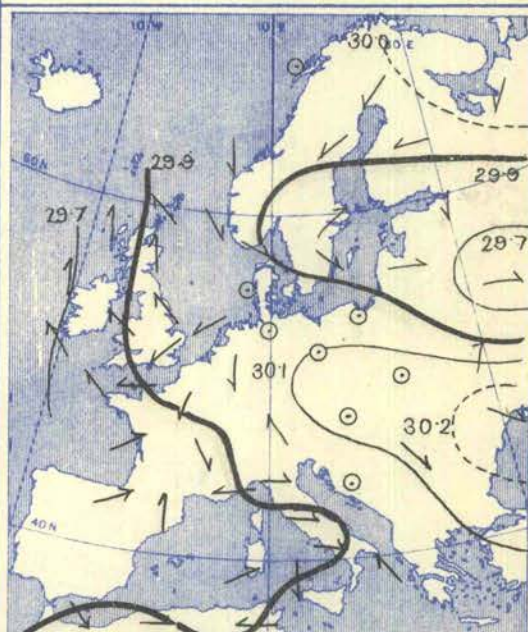


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of our Islands, and the Continent, but misty on several parts of the British coasts. Dull in Spain and the extreme south of France, with rain at Bilbao and Biarritz; dull also in many parts of Sweden and Russia, with fog over the Gulf of Finland, and rain at Haparanda and Kuopio, as well as at Karlstad. Rain falling at night over nearly the whole of Ireland, rather heavily in the south. Heavy rain occurring also in the south of France, and smaller amounts in northern Italy. Thunderstorms occurring in Algeria, and thunder only at Perpignan.

Temperature changed very irregularly. Morning readings highest, 77° at Sanguinaire, 76° at Malta and Algiers, and 75° at Sfax; above 65° in most parts of southern Europe. Lowest, (1) 34° at Loughborough, and 41° at Oxford and Nairn; (2) 36° at Hermanstadt, 37° at Riga and St. Petersburg, and 40° at Lemberg. Daily maxima below 60° on many parts of our own northern coasts, but thermometer exceeding 65° over the inland parts of England; exceeding 70° in France, and exceeding 80° over southern Italy. Ground frost occurring over some of the inland parts of Great Britain at night.

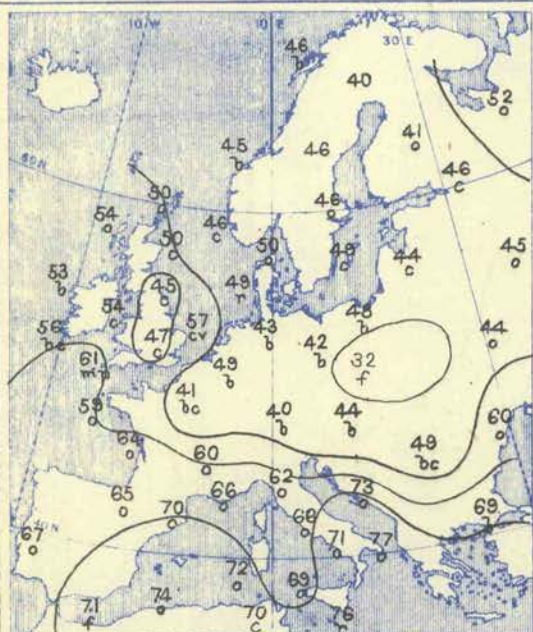
Wind light to moderate from the Eastward or North-Eastward over France and the English Channel; moderate to fresh from the South-Eastward on our western coasts; Southerly in the north of Scotland, North-Easterly in the north of Scandinavia, but North-Westerly in the south; Southerly or South-Easterly over northern Russia. Calm or light and variable over the Netherlands, Denmark, Germany and Austria; Northerly in the south of Russia; variable in Spain and Italy. Subsequently shifting to the West or South-West in the west of France; no important change occurring elsewhere.

Barometer highest, 30.22 ins. at Hermanstadt, 30.1 ins. and upwards over south-eastern Europe generally; 30.1 ins. and upwards in an anticyclone spreading thence over central Europe, the North Sea and Great Britain, as well as in other systems lying respectively over northern Russia and to the south-west of Spain. Lowest, 29.8 ins. and less in two shallow depressions, one lying over the southern parts of the Gulf of Bothnia and the other over the southern parts of the Bay of Biscay. New disturbance approaching the Irish coasts later, and barometer falling over western Europe generally.

Tuesday, 27th September.

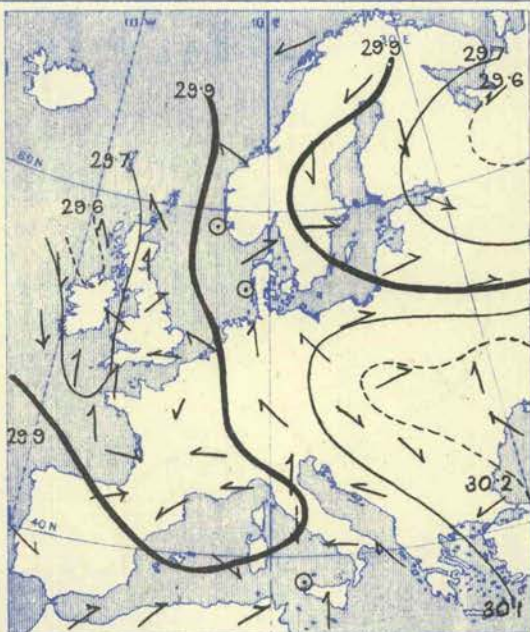
Temperature and Weather.

8 a.m.

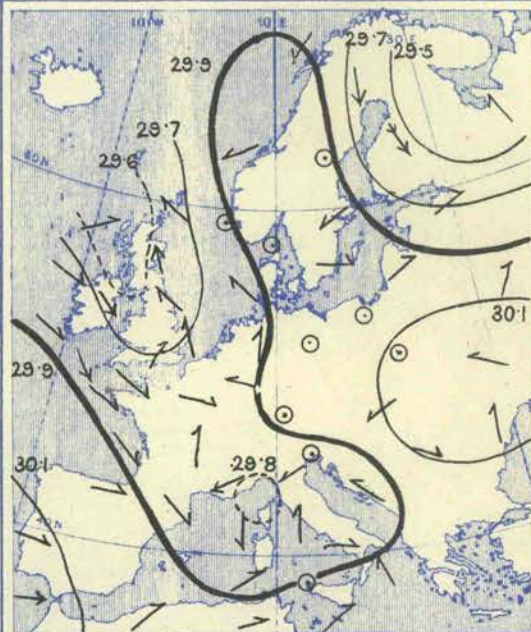


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair in the eastern parts of our Islands, and also in Norway, Denmark, Germany, Austria, the Netherlands, and the north of France. Cloudy or dull elsewhere, with rain at some of the Irish stations as well as at Fanø. Rain falling later over western Europe generally—heavily on our own north-west coasts, and also at some of the French, Italian and Austrian stations, but slightly over England. Solar and lunar halos seen in many parts of England; thunderstorms occurring at Nice, Algiers and Tunis, and thunder only heard at Lyons.

Temperature fallen in Ireland and also in most parts of central Europe, but risen elsewhere. Morning readings highest, 76° at Malta, 74° at Algiers, and 73° at Lesina; above 65° over the southern countries generally. Lowest, 32° at Cracow, 36° at Warsaw, and 37° at Breslau; below 45° in most parts of eastern and central Europe, and also over central England. Daily maxima below 60° at many of our own western and northern stations, but thermometer reaching 65° or more over central Scotland and the south of England; exceeding 70° over France and southern Europe, and exceeding 80° over southern Italy.

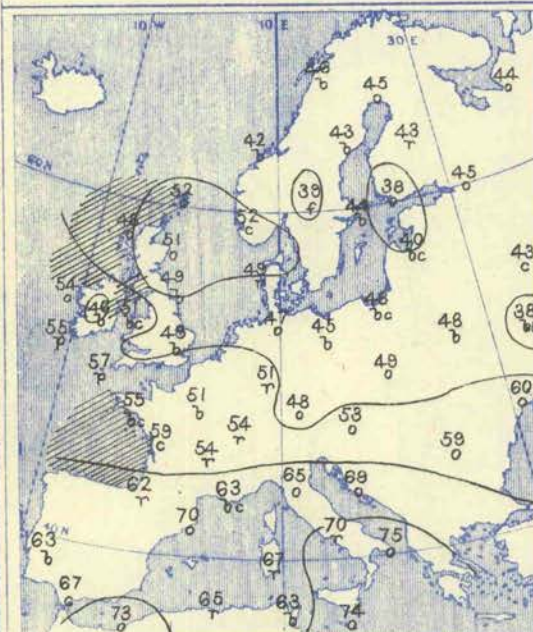
Wind light to moderate from the Southward or South-Eastward over Great Britain as a whole, but Easterly in the south-east of England; fresh to strong from the Northward or North-Westward in the west and south of Ireland. Northerly or North-Easterly over the northern parts of Sweden and Russia, but North-Westerly or Westerly over the Baltic and central Russia. Variable over Germany and the Netherlands and also in Italy; Easterly in the Riviera; Westerly or South-Westerly over the south-west of France. Subsequently shifting to the North-Westward on the west coasts of Great Britain, and blowing very strongly in exposed places.

Barometer highest, 30.31 ins. at Kharkov, 30.1 ins. and upwards in an anticyclone lying over eastern Europe generally, and also in another system off the south-west of Spain. Lowest, 29.6 ins. and less in a "V"-shaped depression with its centre off the west of Scotland, and also in another disturbance over the extreme north of Russia. Western depression subsequently moving eastwards and barometer rising again on all our own western coasts; Russian disturbance becoming deeper and spreading westwards.

Wednesday, 28th September.

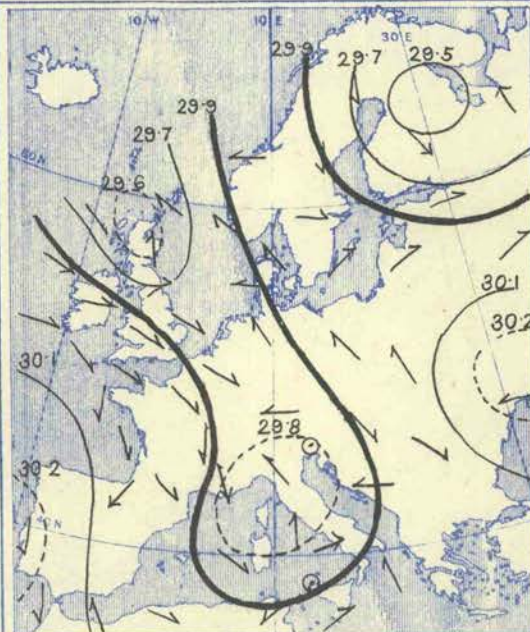
Temperature and Weather.

8 a.m.

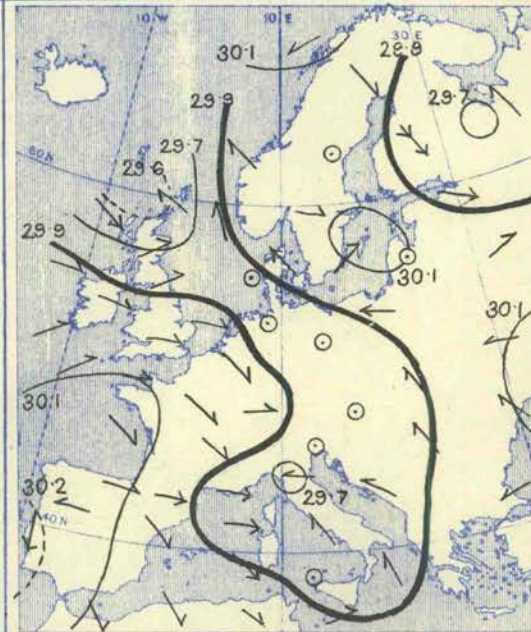


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of Ireland, England, and the north of France, but showery on our extreme south-west coasts; dull in Scotland, with rain in several places. Rain falling also over the Netherlands, and at several of the French stations, as well as at Trieste, Naples and Cagliari. Fine in Scandinavia, and also over the northern and eastern parts of Germany; dull over northern Russia, with rain at Kuopio. Heavy rain falling later in the north of Scotland, and showers in many other parts of Great Britain, with thunderstorms at Frawle Point and Hurst Castle. Large quantities of rain falling also at some of the Italian stations—as much as 1.7 ins. at Naples.

Temperature changed rather irregularly. Morning readings highest, 75° at Brindisi, 74° at Malta, and 73° at Nemours; above 65° at most of the Mediterranean and Adriatic stations. Lowest, 38° at Hangö and Kiev, 39° at Karlstad and Warsaw, and 40° at Riga. Daily maxima below 60° on most parts of our own western and northern coasts, but thermometer exceeding 65° at some of the English Channel stations; exceeding 70° over southern Europe generally. Ground frost occurring over England at night.

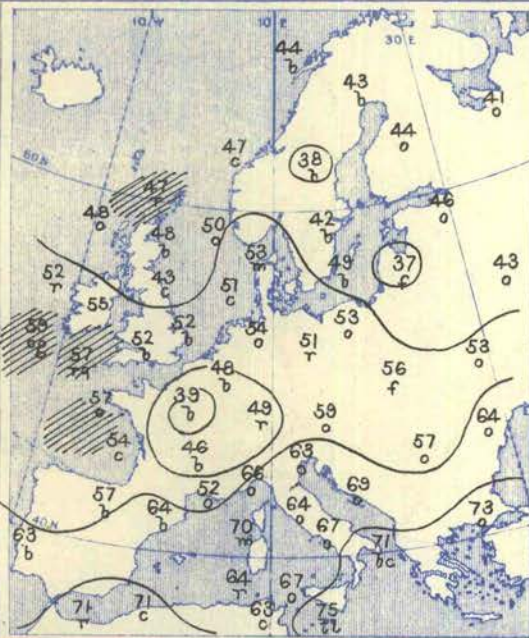
Wind Westerly or North-Westerly over the greater part of our Islands, and strong in force on our north-west coasts; North-Westerly or Northerly in France and Spain. Light or moderate from the Southward in the north-east of Scotland, and from the South-Eastward or Eastward over Norway, Denmark and Germany. Northerly over the Gulf of Bothnia, North-Westerly or Westerly over Finland; variable over Austria and the south of Russia; Southerly to Westerly in the southern parts of Italy. Wind moderating later on our own north-western coasts, and backing to the South-Westward in the west of Ireland.

Barometer highest, 30.2 ins. and upwards in two anticyclones—one lying off the Portuguese coast and the other over the south of Russia. Lowest, 29.6 ins. and less in a depression over the north and east of Scotland, and also in another disturbance over Finland; 29.8 ins. and less in a large shallow area over Switzerland, northern Italy, and the neighbouring parts of the Mediterranean. Scotch depression subsequently moving northwards; new disturbance beginning to approach our western coasts in evening. Depression over Finland beginning to fill up.

Thursday, 29th September.

Temperature and Weather.

8 a.m.

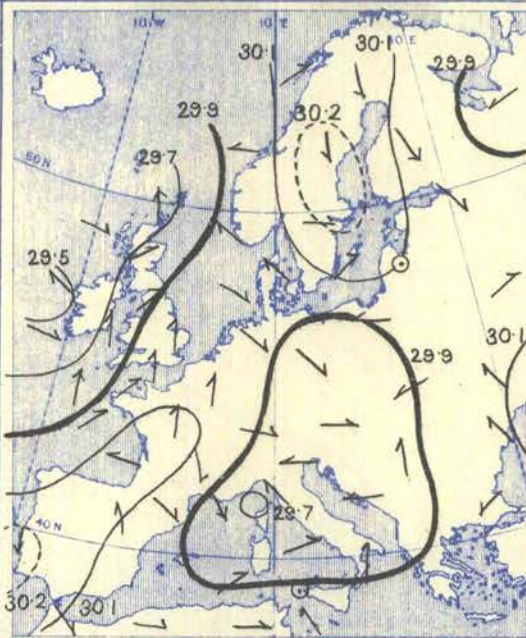


Weather in morning dull in the west and extreme north of our Islands, with rain in several places. Fine in the eastern and central parts of the United Kingdom, and the western and northern parts of the Continent; dull in Germany, Austria, Italy, and the south of Russia, with rain in places; thunderstorm reported at Malta. Rain falling later in nearly all parts of western Europe, heavily in the west and north of our Islands, as well as in Austria and Italy; thunder reported at Liverpool, and also at Nice.

Temperature risen in the west and south of our Islands, and the eastern and central parts of the Continent, fallen elsewhere. Morning readings highest, 75° at Malta, 73° at Constantinople, and 71° at Brindisi, Oran and Algiers; above 65° at most of the Mediterranean and Adriatic stations. Lowest, (1) 37° at Riga, and 38° at Hernösand, (2) 30° at Paris and Le Mans, and 41° at Limoges; (3) 40° at York and Loughborough. Daily maxima below 60° on all our more northern coasts, but thermometer reaching 66° in London and at Cambridge; exceeding 65° also in the west of France, and exceeding 70° in many parts of southern Europe, the highest reading of all being 81° at Brindisi and Palermo.

Barometer and Wind.

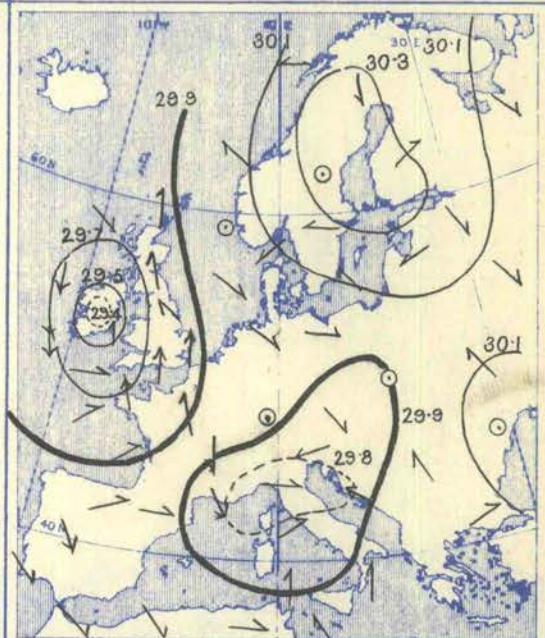
8 a.m.



Wind Southerly over our Islands generally, with a moderate gale at Roche's Point and Scilly, but Westerly at Valencia (Ireland); South-Easterly or Easterly in Norway and the south of Sweden. Calm over central Sweden, but North-Westerly in Finland. Easterly over the Baltic, but North-Westerly in Germany and Westerly in Austria; variable in Italy, North-Westerly in the extreme south of France. Subsequently increasing to a moderate gale from the Southward over the English Channel, and to a fresh gale from the Northward on many parts of our western coasts.

Barometer highest, 30.1 ins. to 30.2 ins. and upwards in an anticyclone over Sweden and Finland, and also in another system stretching north-eastwards from the Portuguese coast to central France. Lowest, 29.5 ins. and less in a well-marked depression off the west of Ireland; 29.8 ins. and less in a shallow area over northern Italy and the neighbouring parts of the Adriatic and Mediterranean; 29.9 ins. and less in a still shallower system over northern Russia, Irish depression subsequently advancing eastwards and south-eastwards across Ireland and England, and barometer rising again on our western coasts.

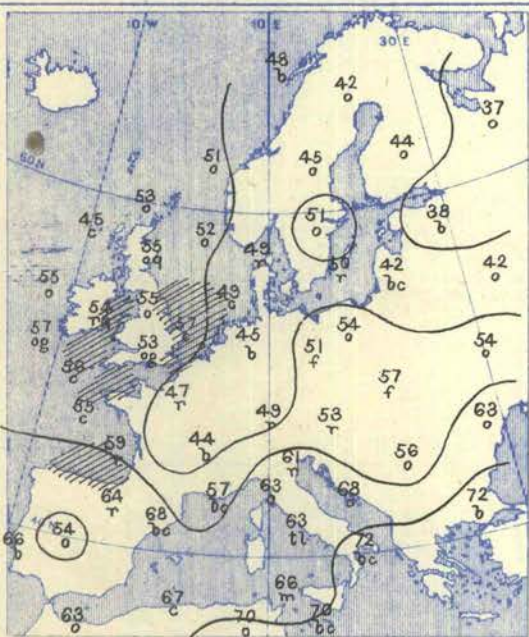
6 p.m.



Friday, 30th September.

Temperature and Weather.

8 a.m.

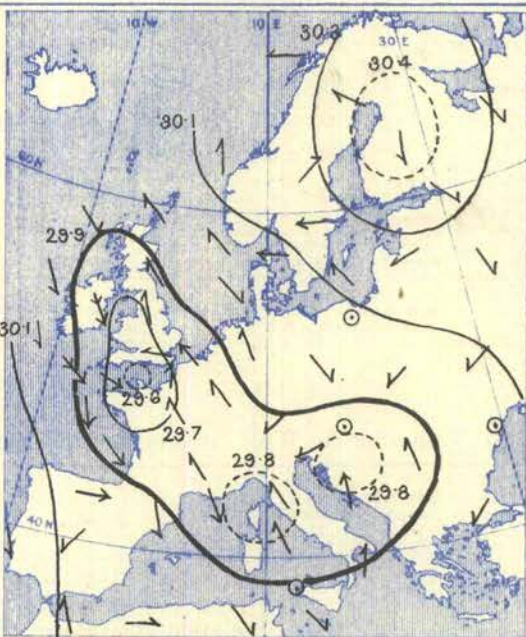


Weather in morning cloudy or dull over nearly the whole of Europe, with rain in many parts of the western, central and southern countries, and with a thunderstorm at Rome. Fine at some of the Irish stations and also in Portugal, the south-east of France, and some parts of southern Italy. Some improvement occurring over our Islands later, but showers falling in many districts, rain falling at several of the Continental stations—heavily at Vienna and Buda-Pesth, and thunder occurring at Lyons.

Temperature risen over north-western Europe generally, but fallen in most other regions. Morning readings highest, 72° at Brindisi and Constantinople, 70° at Malta and Sfax, and 68° at Barcelona and Lesina; above 60° in most parts of southern Europe. Lowest, (1) 37° at Archangel, 38° at St. Petersburg, and 40° at Riga; (2) 44° at Münster, Wiesbaden, Belfort, and Lyons. Daily maxima below 60° in many parts of Great Britain, but a little above that point in the north of England. Exceeding 70° over southern Europe generally, and reaching 82° at Brindisi and Palermo.

Barometer and Wind.

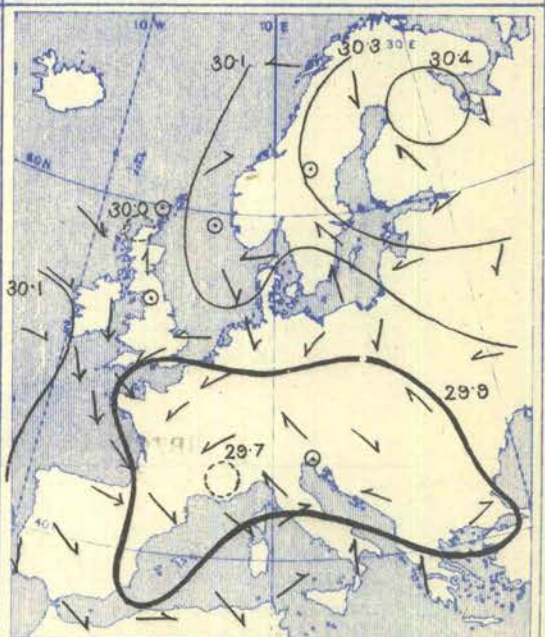
8 a.m.



Wind South-Easterly on the east coasts of Great Britain and all neighbouring parts of the Continent, and very strong in force on the south-east coasts of England; fresh to strong from the Northward or North-Westward on the west coasts of our Islands and France, with a gale in the Irish Sea and at the mouth of the English Channel. Strong from the Eastward or North-Eastward in the south of Sweden, and light from the same quarters over Russia; variable over north Germany, Northerly in south Germany, Southerly or South-Easterly in Italy. Subsequently shifting to the North-Eastward in the south-east of England, and backing to the Westward in the west of Ireland; gales in west all dying down.

Barometer highest, 30.4 ins. and upwards in an anticyclone over Lapland and Finland; 30.2 ins. and upwards in another system off the Portuguese coasts. Lowest, 29.6 ins. and less in a complex depression with its centre near the Isle of Wight; 29.8 ins. and less in two shallow disturbances, one lying over Austria and the other over the Gulf of Genoa. English depression travelling away later to the south-eastward and filling up; barometer rising over western Europe generally.

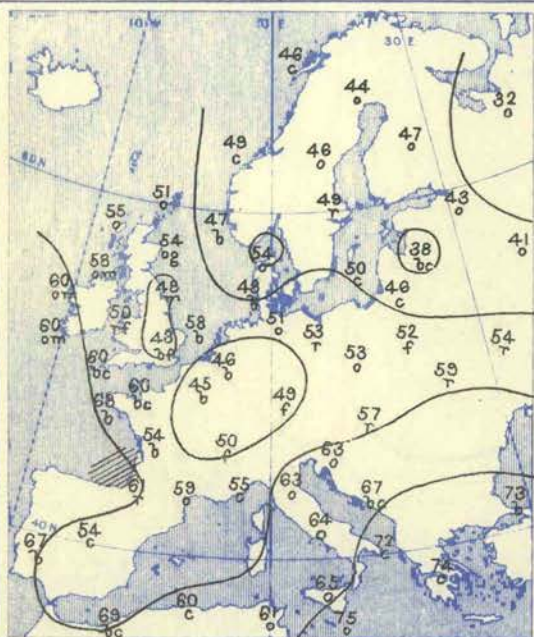
6 p.m.



Saturday, 1st October.

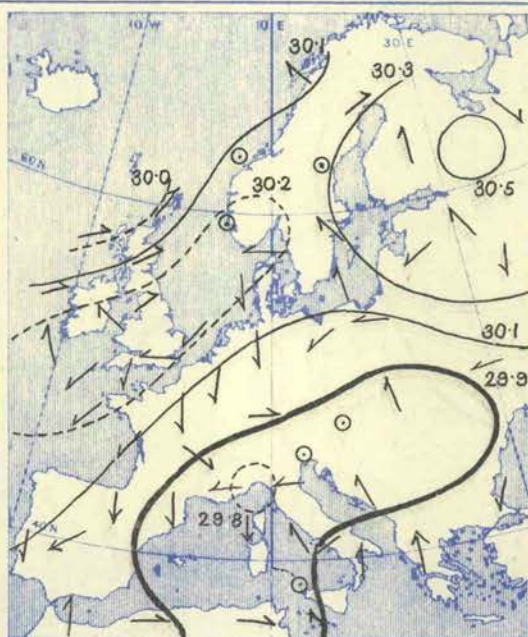
Temperature and Weather.

8 a.m.

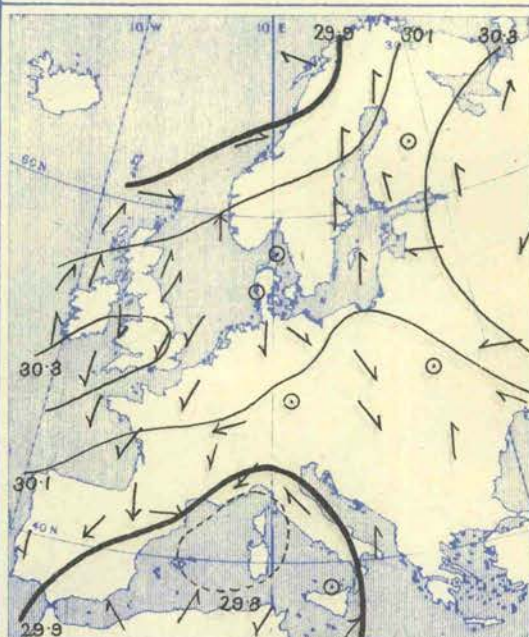


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over England, France, and the Netherlands, but with fog or mist in many places. Cloudy or dull over Ireland, Scotland, and the greater part of the Continent, with rain over Austria and the south of Russia, as well as at Stockholm, Berlin, Rome, and Biarritz; fine in Portugal. Slight rain falling later in Ireland and the west and north of Scotland, and much larger quantities in many parts of Scandinavia, as well as in the south of France—as much as 3.1 ins. at Croisette, and 2.7 ins. at Marseilles. Solar and lunar halos seen at some of the English stations, and lightning at Nice.

Temperature fallen several degrees in the eastern and central parts of England; changed irregularly elsewhere. Morning readings highest, 75° at Malta, 74° at Athens, and 73° at Patras and Constantinople; above 60° over southern Europe generally. Lowest, (1) 32° at Archangel, 38° at Riga, and 41° at Moscow; (2) 41° at Loughborough and Cambridge, and 43° at Oxford and in London. Rising during day to 65° or slightly above it in many parts of Great Britain and France; exceeding 70° over southern Europe, and reaching 79° at Lisbon. Ground frost occurring over central England at night.

Wind light to moderate from the Northward or North-Eastward over the south of England and also over Denmark, Germany, the Netherlands, France, and the Spanish Peninsula. Light from the Southward or South-Westward over Ireland and the northern parts of Great Britain; calm in the west of Norway. Easterly over the Baltic Provinces, and South-Easterly over Finland and the south of Sweden. Calm or variable in Austria; Easterly in the south of Russia. No important change occurring over western Europe during day.

Barometer highest, 30.4 ins. and upwards over northern Russia; 30.2 ins. and upwards in an anticyclone lying over the greater part of Sweden and Russia, and also in another system extending from the South-Westward over Ireland, England, and the North Sea. Lowest, 29.8 ins. and less in a shallow depression lying off the south of France; 30.0 ins. and less in another shallow system off the north of Scotland; no important change occurring later.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: --- = blue sky; --- = detached clouds; --- = overcast; --- = misty (hazy); --- = foggy; --- = squally; --- = rain; --- = hail; --- = snow; --- = lightning; and --- = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this week the changes in pressure were somewhat complex. At the commencement of the time the western and central countries remained under the influence of a large anticyclone, shallow depressions being reported, however, over Finland and over the north of Spain and the south of France. On the 26th a new anticyclone was formed over south-eastern Europe, and ultimately united with the older system in the west. Next day, however, the western portion of the combined area gave way entirely under the influence of a "V"-shaped depression, which advanced over our Islands from the Atlantic, the latter system occasioning rain in nearly all parts of Western Europe, with freshening winds from the Southward and afterwards from the Northward or North-Westward. The Continental anticyclone now receded to the eastward, while further depressions appeared respectively over northern Russia and over Italy and the neighbouring provinces, so that the weather became generally unsettled, with thunderstorms and heavy rain in many parts of southern Europe. By the morning of the 29th another anticyclone had appeared over Scandinavia, while a well-marked depression had advanced to the west of Ireland, the disturbance moving later eastward and south-eastward across Ireland and England to France, where it finally dispersed. During its progress heavy rain fell in the west and north of our Islands, and smaller quantities in the east and south, a Southerly gale being experienced in the English Channel, and North-Westerly or Northerly gales on many parts of our western coasts. As the depression passed away another anticyclone spread over our Islands from the North-westward, and at the close of the week this was uniting with the Scandinavian system, so that fair, dry weather was again setting in over all the western and northern countries.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 230.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
2 FERNES (Orkney Islands)	8.2	?	10	?	WESTBOURNE (Emsworth)	38.8*	+ 4.8	47*	+ 7
STRATHPEFFER SPA	16.6	- 9.9	20	- 12	WATERGATE (Emsworth)	34.5	?	42	?
EDINBURGH	9.8	- 12.4	12	- 16	BRIGHTON	40.0	+ 5.5	49	+ 8
MORPETH	21.1	?	26	?	EASTBOURNE	40.7	+ 4.7	50	+ 7
NEWCASTLE-ON-TYNE	12.8	?	16	?	VENTNOR HOSPITAL	38.2	?	47	?
OSWALDKIRK (Yorkshire)					SOUTHPORT	29.5	?	36	?
HOLLESLEY BAY	41.3	?	51	?	COLWYN BAY				
SHEFFIELD	25.4	?	31	?	TENBY	38.5†	+ 5.5	48†	+ 9
WORKSOP	24.4	- 1.9	30	- 1	NEWQUAY	38.5	+ 5.5	47	+ 7
THURCASTON (Leicestershire)	33.2	+ 8.0	41	+ 11	TORQUAY	34.4*	+ 0.4	42*	+ 2
PLUMSTEAD COMMON	40.5	?	49	?	GUERNSEY	43.3*	+ 6.3	53*	+ 10
MARGATE	32.8	+ 2.7	40	+ 4					

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

† The values at Tenby are now obtained by a Stokes' Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 40.]
Third Series.

WEEK ENDING SATURDAY, OCTOBER 8TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 236.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	80	39	64.1	48.9	56.3	8 above	Day-deg. 100	Day-deg. +50	Day-deg. 0	Day-deg. - 3	Day-deg. 2018	Day-deg. +278	Day-deg. 395	Day-deg. -235
	1. SCOTLAND, EAST	74	34	63.1	46.4	54.5	6 above	88	+33	0	- 4	2305	+196	427	-230
	2. ENGLAND, N.E.	72	42	61.2	50.1	55.5	5 above	95	+25	0	- 1	2519	+247	333	-217
	3. ENGLAND, EAST	71	35	61.7	49.5	55.4	4 above	94	+17	0	- 1	2817	+195	410	-208
	4. MIDLAND COUNTIES	72	36	60.9	47.7	54.1	4 above	85	+22	0	- 2	2791	+178	412	-210
	5. ENGLAND SOUTH	71	39	62.2	52.3	57.1	4 above	106	+20	0	- 1	3107	+263	234	-244
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	75	42	63.0	50.7	56.7	7 above	103	+40	0	- 2	2482	+276	245	-219
	7. ENGLAND, N.W.	68	44	61.6	50.7	56.0	5 above	98	+26	0	- 1	2681	+206	215	-245
	8. ENGLAND, S.W.	73	36	62.2	51.8	56.9	4 above	104	+24	0	- 1	2955	+298	205	-157
	9. IRELAND, NORTH	71	39	62.4	52.6	57.4	7 above	108	+45	0	- 1	2622	+298	227	-169
	10. IRELAND, SOUTH	69	40	63.7	51.7	57.6	6 above	109	+39	0	- 1	3026	+400	165	-136
	-CHANNEL ISLANDS.	73	53	65.4	55.8	60.5	5 above	130	+30	0	0	3472	+479	55	- 93

DISTRICTS. (See p. 236.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	1	10ths of in. 1	11 less	192	+10	42.2	+ 7.0	47	+28	62	+28	1109	+157	30	+ 5	
	1. SCOTLAND, EAST	1	less than ½	7 less	146	- 3	18.9	- 4.6	34	+12	44	+16	1204	+ 76	32	+ 2	
	2. ENGLAND, N.E.	2	1	6 less	126	-12	14.0	- 5.4	24	+ 3	30	+ 5	1114	+ 14	31	+ 1	
	3. ENGLAND, EAST	2	less than ½	6 less	110	-26	13.1*	- 6.2	25	- 5	32	- 5	1355	- 4	37	0	
	4. MIDLAND COUNTIES	2	less than ½	7 less	114	-18	13.5	- 7.5	17	- 6	23	- 7	1260	+ 74	35	+ 2	
	5. ENGLAND, SOUTH	0	less than ½	8 less	102	-26	12.5	- 8.4	24	- 6	31	- 7	1370	+ 10	39	0	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	1	less than ½	11 less	167	+11†	30.4	- 4.7	26	- 6	33	- 9	1209	+ 40	33	+ 1	
	7. ENGLAND, N.W.	0	less than ½	9 less	139	- 4	23.8	- 1.5	22	+ 1	28	0	1297	+129	36	+ 4	
	8. ENGLAND, S.W.	2	3	7 less	126	-18	20.7	- 7.1	24	- 6	31	- 6	1525	+ 74	42	+ 2	
	9. IRELAND, NORTH	2	6	2 less	178	+ 9	27.0	- 0.5	20	- 3	26	- 3	1152	+ 56	31	+ 1	
	10. IRELAND, SOUTH	2	10	3 more	140	-12	26.8	- 1.7	30	+ 3	38	+ 4	1308	+ 62	36	+ 2	
	- CHANNEL ISLANDS.	3	4	5 less	143	- 8	16.1	- 7.1	45	+15	57	+20	1764	+136	50	+ 4	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather varied considerably in different parts of the Kingdom. Over the greater part of Scotland it was extremely fine and bright; over England the latter part of the week was dull and gloomy, with a good deal of damp mist or fog; while over Ireland, after being fair and dry during the greater part of the period, it became very unsettled, with some heavy falls of rain, the wet weather extending later to the extreme south-west of England.

Temperature was much above the mean, the excess varying from 4° or 5° over England to 6° or 7° in Ireland and the east and west of Scotland, and to as much as 8° in Scotland N. The absolute maxima, which were recorded during the earlier days of the week, were abnormally high for the time of year in Scotland. They ranged from 80° in Scotland N. (at Lairg on the 3rd), and from 75° in Scotland W. to 69° in Ireland S., and to 68° in England N.W. The lowest of the minima, which were registered on the 2nd over England, about the middle of the week in Ireland, and towards the end in Scotland, ranged from 34° in Scotland E., 35° in England E., and 36° in England S.W. and the Midland Counties to 44° in England N.W., and to 53° in Channel Islands. During the greater part of the week the minima over England were unusually high for the season, and the diurnal range of temperature very slight.

Rainfall exceeded the mean in Ireland S., but was less in all other districts. In most parts of the Kingdom the fall was scarcely appreciable.

Bright Sunshine was much above the mean in Scotland N. and E. and the Channel Islands, and slightly in excess in England N.E. and Ireland S., but in nearly all other districts there was a deficit. The percentage of the possible duration ranged from 62 in Scotland N., 57 in the Channel Islands, and 44 in Scotland E. to 23 in England N.W., 26 in Ireland N., and 23 in the Midland Counties.

Barometer and Wind.—The distribution of pressure over our Islands was mainly anticyclonic, the system travelling slowly over our Islands in a north-easterly direction to Scandinavia. No definite depressions appeared in any part of the Kingdom, but towards the end of the week one or two disturbances spread over our south-western and western coasts from the Atlantic. The wind, which was moderate from the South-Westward in the north during the early days of the week, subsequently became Easterly or South-Easterly very generally, and increased considerably in force from the latter quarter in the west and south-west as the depressions noticed above approached our coasts.

II.—DATA from which the SUMMARY on page 235 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	61	46	55.3	48.4	51.8	+ 4.2	69	0	3	0.06	- 0.82	*	*	*	*
	Stornoway	70	44	64.7	48.6	56.4	+ 8.8	101	0	1	0.10	- 0.98	50.4	+28.8	65	+38
	Wick	73	40	65.4	49.0	57.0	+ 9.0	105	0	1	0.01	- 0.59	*	*	*	*
	Lairg	80	39	67.9	47.0	57.1	+10.7	106	0	0	—	- 0.88	*	*	*	*
	Glencarron	75	48	65.2	49.9	57.3	+13.3	107	0	1	0.22	- 1.68	*	*	*	*
	Fort Augustus	69	44	64.6	49.0	56.6	+ 7.7	102	0	0	—	- 0.98	54.3	+38.5	71	+51
	Fort William	74	47	65.4	50.5	57.7	+ 8.1	110	0	1	0.07	- 1.70	43.3	+22.6	56	+31
1. SCOTLAND, E.	Nairn	72	36	66.7	44.1	55.1	+ 6.5	92	0	0	—	- 0.63	*	*	*	*
	Aberdeen	71	40	62.4	46.1	54.0	+ 4.9	84	0	3	0.05	- 0.68	40.2	+16.2	52	+21
	Braemar	74	34	65.8	42.8	54.0	+ 8.4	84	0	0	—	- 0.77	52.3†	+30.3†	68†	+41†
	Ochertyre	74	42	62.0	47.1	54.3	+ 5.5	86	0	1	0.01	- 0.90	*	*	*	*
	Leith	70	44	61.3	49.4	55.2	+ 4.6	92	0	0	—	- 0.52	*	*	*	*
	Marchmont	70	45	60.6	48.7	54.5	+ 6.4	88	0	4	0.09	- 0.71	22.8	+ 0.8	30	+ 2
2. ENGLAND, N.E.	Alnwick Castle	72	47	62.8	50.2	56.3	+ 7.2	100	0	4	0.09	- 0.64	*	*	*	*
	Durham	70	43	62.1	48.2	54.9	+ 5.3	90	0	2	0.12	- 0.55	26.9	+ 3.3	34	+ 5
	Shields	69	47	60.4	50.1	55.1	+ 5.0	92	0	1	0.01	- 0.57	*	*	*	*
	Scarborough	65	43	59.0	50.6	54.7	+ 3.8	89	0	3	0.07	- 0.63	28.6	?	37	?
	York	71	42	62.6	48.1	55.1	+ 4.5	92	0	1	0.04	- 0.58	24.9	+ 0.5	32	+ 3
	Spurn Head	65	50	60.0	53.6	56.7	+ 4.3	103	0	1	0.01	- 0.51	*	*	*	*
3. ENGLAND, E.	Hillington	71	39	63.1	49.0	55.8	+ 4.5	97	0	2	0.03	- 0.63	25.0	- 1.6	32	- 1
	Yarmouth	64	45	59.4	52.1	55.6	+ 3.2	95	0	1	0.02	- 0.70	*	*	*	*
	Geldeston	67	35	61.0	49.3	55.0	+ 3.0	91	0	1	0.01	- 0.63	27.5	- 3.5	35	- 4
	Cambridge	71	36	63.7	47.4	55.3	+ 3.6	93	0	2	0.02	- 0.53	21.3	- 7.0	27	- 9
	Rothamsted	68	37	61.5	49.5	55.3	+ 4.5	93	0	3	0.03	- 0.67	23.3	- 4.7	30	- 5
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	63	40	62.6	46.6	54.4	+ 4.1	87	0	3	0.07	- 0.56	*	*	*	*
	Loughborough	72	37	62.3	47.4	54.6	+ 3.3	88	0	3	0.05	- 0.58	*	*	*	*
	Stamford (Duddington)	68	36	61.9	47.6	54.3	+ 2.5	86	0	3	0.07	- 0.65	*	*	*	*
	Cheadle	69	45	59.6	48.9	54.1	+ 4.4	85	0	1	0.02	- 0.68	*	*	*	*
	Shirley (near Solihull)	69	36	60.9	47.7	54.1	+ 3.9	85	0	3	0.05	?	*	*	*	*
	Churchstoke	69	40	59.3	47.3	53.1	+ 3.8	78	0	1	0.04	- 0.70	18.8	-11.0	18	-13
	Hereford	67	38	58.8	48.1	53.3	+ 2.6	79	0	2	0.02	- 0.66	*	*	*	*
	Cirencester	67	38	60.3	47.1	53.5	+ 3.7	81	0	0	—	- 0.74	18.3	- 6.6	23	- 9
	Oxford	69	37	62.7	48.7	55.5	+ 3.9	95	0	0	—	- 0.67	20.0	- 7.1	26	- 9
5. ENGLAND, S.	London	71	40	63.4	50.1	56.6	+ 4.4	102	0	0	—	- 0.61	13.7†	- 8.1†	18†	-11†
	North Foreland	63	51	59.9	55.1	57.4	+ 3.5	108	0	0	—	?	*	*	*	*
	Cranley	69	39	62.8	51.0	56.7	+ 4.1	103	0	1	0.01	?	*	*	*	*
	Dungeness	64	49	61.4	55.4	58.3	+ 4.4	114	0	0	—	- 0.76	*	*	*	*
	Hastings (St. Leonards)	66	46	61.6	52.5	56.9	+ 3.2	104	0	0	—	- 0.84	23.8	- 9.2	31	-10
	Southampton	71	41	65.1	50.4	57.5	+ 4.2	109	0	0	—	- 0.79	25.0	- 4.0	32	- 6
	Hurst Castle	67	46	63.3	53.0	58.0	+ 4.1	112	0	1	0.11	- 0.68	*	*	*	*
	Shaftesbury	65	47	60.0	51.2	55.5	+ 5.1	95	0	1	0.06	- 0.84	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	75	49	67.2	52.0	59.4	+10.0	122	0	1	0.03	- 1.77	*	*	*	*
	Glasgow	65	45	59.7	51.2	55.3	+ 6.8	93	0	0	—	- 0.84	16.4	- 2.2	21	- 4
	Ardrossan	65	49	61.4	52.0	56.6	+ 5.8	102	0	1	0.02	- 0.78	*	*	*	*
	Glenlee	74	42	63.6	48.4	55.8	+ 6.8	97	0	1	0.01	- 1.25	*	*	*	*
	Gilcrux (Cumberland)	74	44	65.3	48.3	56.6	+ 6.9	102	0	1	0.08	?	40.9	?	52	?
	Douglas (Isle of Man)	66	48	60.8	52.5	56.5	+ 6.1	102	0	0	—	- 0.88	19.4	-10.4	25	-13
7. ENGLAND, N.W.	Stonyhurst	67	46	59.5	49.8	54.5	+ 4.7	88	0	0	—	- 1.15	19.8	- 5.7	25	- 7
	Blackpool	68	46	62.0	50.2	55.9	+ 4.7	97	0	0	—	- 0.97	18.8	- 5.9	24	- 7
	Manchester (Prestwich)	65	44	60.7	49.7	55.0	+ 4.8	91	0	0	—	- 0.97	16.4	?	21	?
	Liverpool Obsy. (Bidston)	67	48	60.3	50.9	55.6	+ 3.9	95	0	1	0.01	- 0.84	*	*	*	*
	Llandudno	67	49	62.4	51.9	57.0	+ 4.2	105	0	0	—	- 0.85	34.8	+12.2	45	+16
	Holyhead	67	49	64.3	51.7	57.8	+ 4.7	111	0	1	0.03	- 0.84	*	*	*	*
	Llandoverly	73	36	64.0	48.7	56.1	+ 6.3	99	0	1	0.07	- 1.13	*	*	*	*
8. ENGLAND, S.W.	Pembroke	64	49	60.9	53.7	57.2	+ 3.8	106	0	2	0.44	- 0.46	19.7	- 8.8	25	-11
	Clifton	64	42	59.8	48.6	54.0	+ 2.4	84	0	1	0.02	- 0.84	*	*	*	*
	Arlington (N. Devon)	66	42	61.3	50.1	55.5	+ 4.2	95	0	2	0.22	- 1.02	*	*	*	*
	Cullompton	67	39	63.0	49.7	56.2	+ 2.8	99	0	2	0.14	- 0.76	19.4	- 6.8	25	- 8
	Falmouth	65	49	62.3	54.9	58.5	+ 4.6	116	0	3	0.62	- 0.56	24.6	- 6.2	31	- 7
	Plymouth	67	45	64.2	53.8	58.9	+ 5.3	118	0	3	0.63	- 0.29	32.7	+ 3.8	41	+ 4
	Prawle Point	64	50	62.0	55.0	58.4	+ 4.5	115	0	4	0.36	- 0.42	*	*	*	*
	Malin Head	66	52	61.7	54.6	58.1	+ 7.4	113	0	1	0.25	?	*	*	*	*
9. IRELAND N.	Londonderry	71	49	64.8	53.6	59.0	+ 8.7	119	0	1	0.57	- 0.37	*	*	*	*
	Edenfel (Omagh)	68	46	60.7	52.3	56.4	+ 8.5	101	0	4	1.19	+ 0.34	*	*	*	*
	Belmullet	70	47	64.7	53.0	58.7	+ 7.5	117	0	1	0.58	- 0.54	*	*	*	*
	Markree Castle	69	39	63.0	51.9	57.3	+ 7.8	107	0	1	0.47	- 0.48	24.4	+ 2.6	31	+ 4
	Armagh	69	43	61.5	51.4	56.3	+ 7.0	100	0	3	0.79	+ 0.14	15.8	- 9.2	20	-11
	Donaghadee	66	46	60.4	51.7	55.9	+ 5.1	97	0	2	0.14	- 0.51	*	*	*	*
	Edgeworthstown	?	?	?	?	?	?	?	?	2	0.74	+ 0.06	*	*	*	*
	Dublin	65	48	62.3	53.7	57.9	+ 6.3	111	0	1	0.22	- 0.36	24.4	- 4.6	31	- 6
10. IRELAND S.	Parsonstown	69	40	64.6	50.4	57.3	+ 8.0	107	0	2	0.68	- 0.07	34.4	+ 8.0	44	+12
	Kilkenny	68	40	63.6	50.3	56.8	+ 5.6	104	0	2	0.83	+ 0.23	*	*	*	*
	Roche's Point	63	48	61.7	54.3	57.9	+ 5.3	111	0	3	1.53	+ 0.69	*	*	*	*
	Valencia	69	46	65.0	53.6	59.1	+ 5.8	120	0	3	1.38	+ 0.34	30.2	+ 3.3	39	+ 5
	Killarney	?	?	?	?	?	?	?	?	?	?	?	*	*	*	*
	Foynes	69	44	65.0	48.1	56.3	+ 5.5	100	0	3	1.42	?	*	*	*	*
	Scilly (St. Mary's)	67	54	63.9	56.3	60.0	+ 4.8	126	0	3	0.79	- 0.11	36.4	?	46	?
CHANNEL ISLANDS	Jersey	73	53	67.0	55.3	61.0	+ 4.7	133	0	2	0.06	- 0.91	48.6	+14.1	62	+17

Stations marked *all* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 2nd October.

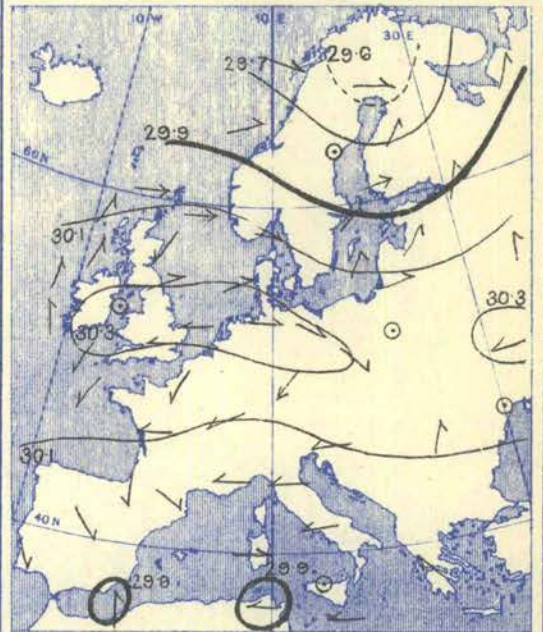
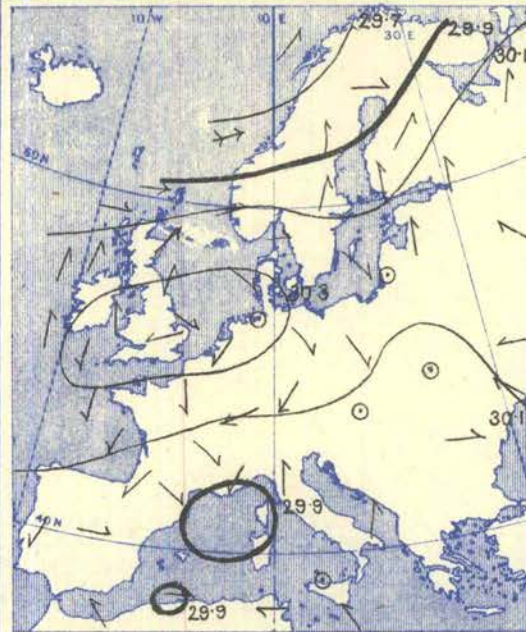
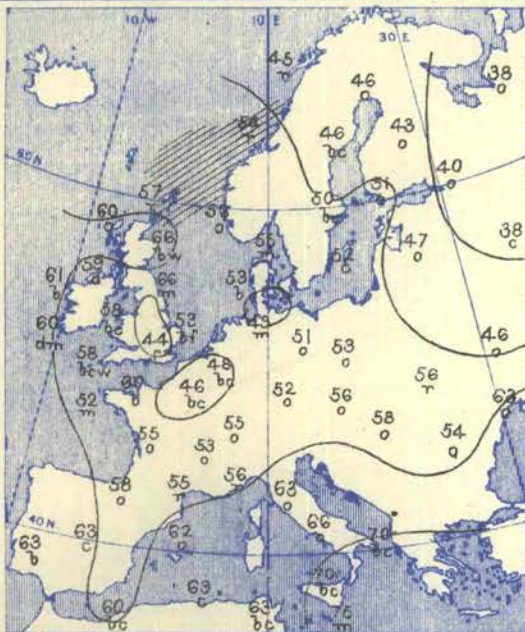
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine over England and the neighbouring parts of the Continent, as well as in the east of Scotland. Dull in Ireland and the west and north of Scotland, with rain in the Shetlands and also in the west of Norway. Fine in Sweden, but dull over eastern, central and southern Europe generally, with rain in the extreme south of France, and also at Bilbao. Fine over the southern parts of Italy and the Spanish Peninsula. Slight rain falling later on some parts of our own extreme north and north-west coasts and larger quantities in the west of Norway, as well as in the south of France, northern Italy and many parts of Russia.

Temperature risen in most places. Morning readings highest, (1) 75° at Malta, 70° at Brindisi and Palermo, and 69° at Algiers; (2) 66° at Aberdeen, and 63° at Wick and Nairn. Lowest, (1) 36° at Kharkov, and 38° at Archangel and Moscow; (2) 40° at Cambridge, 42° at Loughborough and Oxford. Rising during day to 65° and upwards in the south of England, and to 70° or slightly above it at several stations in the northern parts of Great Britain. Exceeding 70° also in many parts of southern Europe and reaching 86° at Palermo.

Wind light from the Eastward or North-Eastward in the south of England, and moderate to fresh from the same quarters over the Netherlands, France, and the Spanish Peninsula. Light from the Southward in Ireland; Westerly in Scotland; South-Westerly over Scandinavia and northern Russia, with a gale at Christiansund. Light from the Northward in Germany; calm in Austria; North-Easterly in the south of Russia; variable over southern Italy. No important change occurring during day.

Barometer highest, 30.4 ins. and upwards in an anticyclone over central Russia, 30.3 ins. and upwards in another system lying over England, the south-east of Ireland, the Netherlands and the southern parts of the North Sea. Lowest, 29.7 ins. and less in a depression lying off the northern parts of the Norwegian coast; 29.9 ins. and less in a very shallow disturbance off the south coast of France. Norwegian depression subsequently moving eastwards; disturbance off the south of France entirely filling up.

Monday, 3rd October.

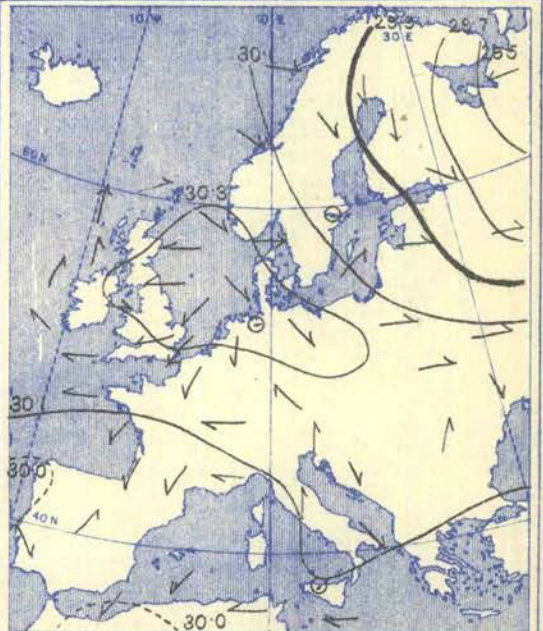
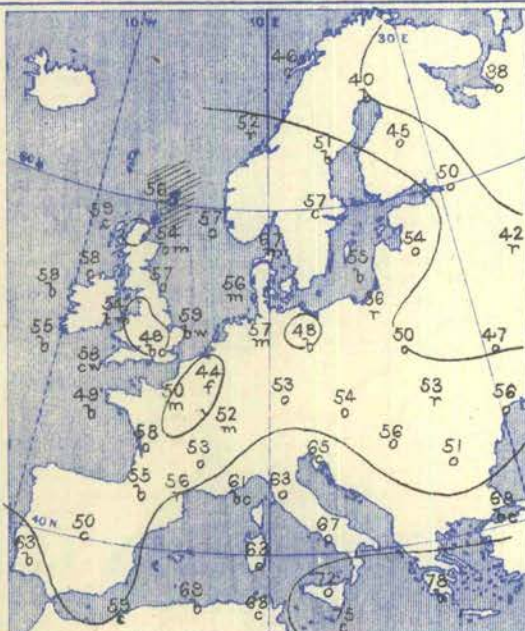
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine over western Europe as a whole, but foggy or misty in places. Fine also in Sweden and in Greece, but cloudy over the northern, eastern and southern countries generally, with rain in the south of France, as well as at Christiansund, Neufab-wasser, Moscow and Lemberg. No important change occurring over western Europe during day, but heavy rain falling at Christiansund, as well as at some stations in the south of France and northern Italy.

Temperature fallen in the west and north of our Islands, as well as in Germany and Austria, risen in most other regions. Morning readings highest, 78° at Athens, 75° at Patras and Malta, and 72° at Palermo; above 60° in most parts of southern Europe, as well as on the south-east coasts of England and the north-east coasts of Scotland. Lowest, (1) 38° at Archangel, 40° at Haparanda and Kharkov, and 42° at Moscow; (2) 44° at Loughborough and 46° at Cambridge. Rising during day to between 65° and 70° over nearly the whole of our Islands and France, to 71° at Nairn, London and Cambridge, and to 73° at Wick. Exceeding 70° also in most parts of southern Europe and reaching 86° at Palermo.

Wind Easterly or North-Easterly over the south and east of England, France and nearly the whole of southern Europe; light or moderate in force generally, but fresh at some of the English Channel stations. Light from the Southward or South-Westward in the northern parts of our Islands; moderate to fresh from the Westward or North-Westward over Finland, Scandinavia, Denmark, north Germany and the Baltic; calm or variable over Austria and the south of Russia. No important change occurring during day.

Barometer highest, 30.3 ins. and upwards over England, the Netherlands, north Germany and the southern parts of the North Sea; 30.1 ins. and upwards in an anticyclone embracing the whole of western and central, and the greater part of southern Europe. Lowest, 29.6 ins. and less in a shallow depression over the extreme north of Russia. No important change occurring later, but another shallow depression appearing in evening over Portugal and the north-west of Spain.

Tuesday, 4th October.

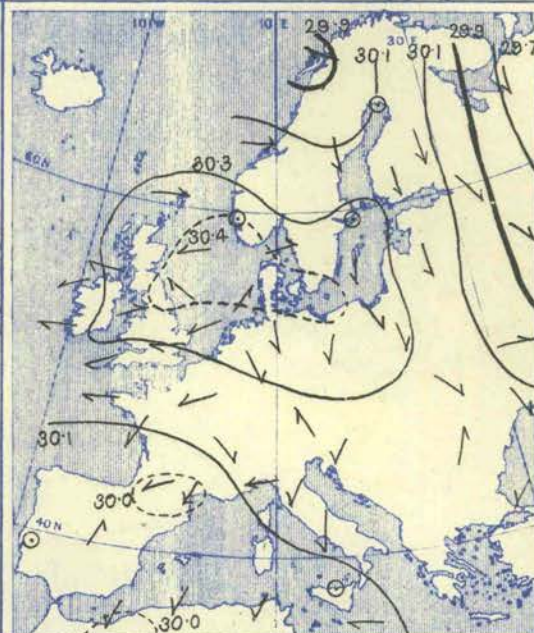
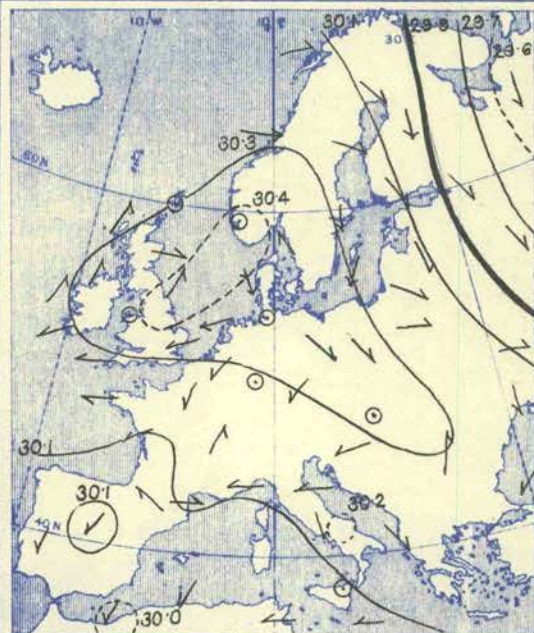
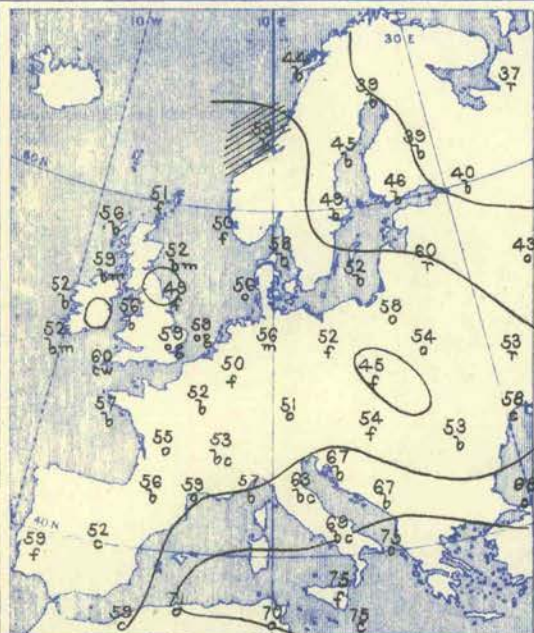
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fair or fine over western and northern Europe as a whole, but with fog or mist in many places; dull and gloomy over the inland parts of England. Foggy at many of the German stations, and dull in the south of Russia, with rain at Kiev; fine in most parts of Italy and Austria, but rain falling at Rome. Slight amounts of rain measured later at several of the English stations, and larger quantities in the west of Norway and the extreme south of France, as much as 1.5 ins. at Perpignan and 1.4 ins. at Toulon. Thunderstorm occurring at Laghouat and lightning seen at Perpignan.

Temperature risen quickly over England, fallen in Ireland and Scotland, and also in Sweden and northern Russia, changed irregularly elsewhere. Morning readings highest, 75° at Brindisi, Palermo and Malta, and 71° at Algiers, above 65° at several of the Mediterranean and Adriatic stations. Lowest, (1) 37° at Archangel, and 39° at Haparanda and Kuopio, (2) 43° at Parsonstown. Daily maxima over England very little above 60°, but thermometer rising to 70° or slightly above it in many parts of Scotland; exceeding 70° over France and southern Europe generally, and reaching 86° at Palermo.

Wind Easterly to North-Easterly over the southern parts of our Islands, as well as over the Netherlands, France and the Spanish Peninsula, light or moderate in force generally, but fresh at some of the English Channel stations. Light from the Southward or South-Westward over the northern parts of our Islands. Moderate to strong from the Westward or North-Westward over the northern parts of Scandinavia, and from the North-Westward or Northward over Sweden, Russia, Denmark, and eastern Germany as well as in Italy, and calm or variable in Austria. No important change occurring during day.

Barometer highest, 30.4 ins. and upwards over the north of England and the central parts of the North Sea, 30.1 ins. and upwards in an anticyclone embracing all but the north-eastern and south-western parts of Europe. Lowest, 29.6 ins. and less in a large depression over northern Russia. Scarcely any change occurring over western Europe later, but shallow depression appearing over the north-east of Spain in evening.

Wednesday, 5th October.

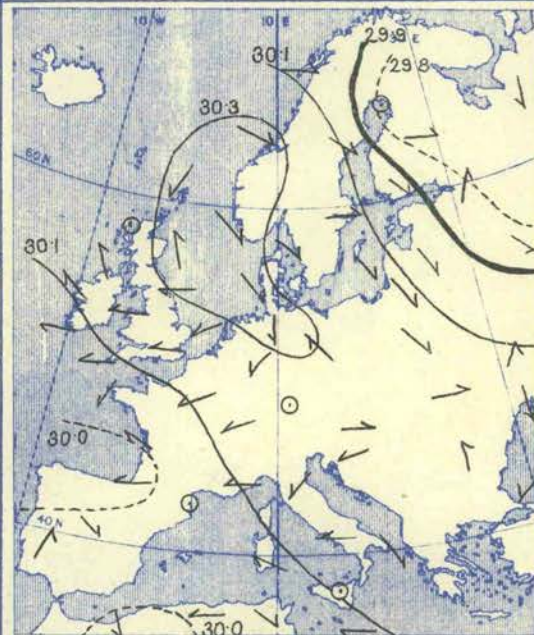
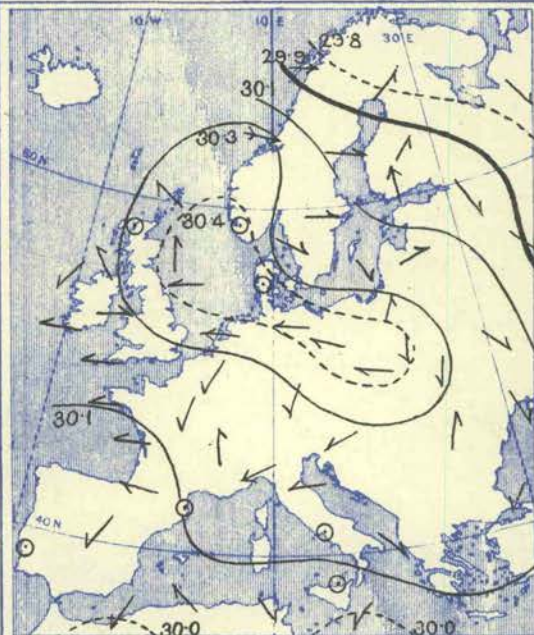
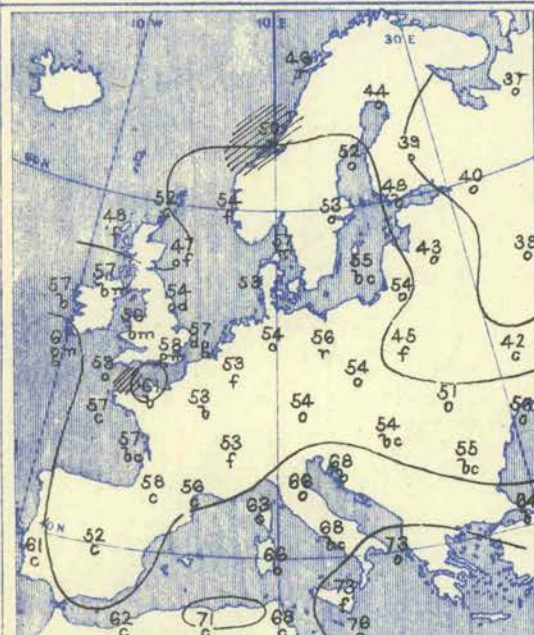
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull over the greater part of north-western, northern and central Europe, with mist or fog in many places, and slight drizzling rain at some of the English stations; rain falling also in the west of Norway and in Finland, as well as at Berlin. Fine over Italy and Austria, as well as at many of the French and Spanish stations. Rain falling later in the west of France; thunder and lightning occurring at several of the French stations.

Temperature changed rather irregularly. Morning readings highest, 76° at Malta and 73° at Brindisi and Palermo; above 65° at the Mediterranean and Adriatic stations generally, and above 60° in the Channel Islands. Lowest, 37° at Archangel, 38° at Uleaborg and Moscow, and 39° at Kuopio; lowest in our Islands, 46° at Nairn and 47° at Aberdeen. Daily maxima below 60° at many of our own eastern and central stations, but thermometer rising to 65° and upwards on our extreme north-west coasts, and reaching 70° at Stornoway. Exceeding 70° at most of the French stations, and exceeding 80° over southern Italy, the highest reading of all being 86° at Palermo.

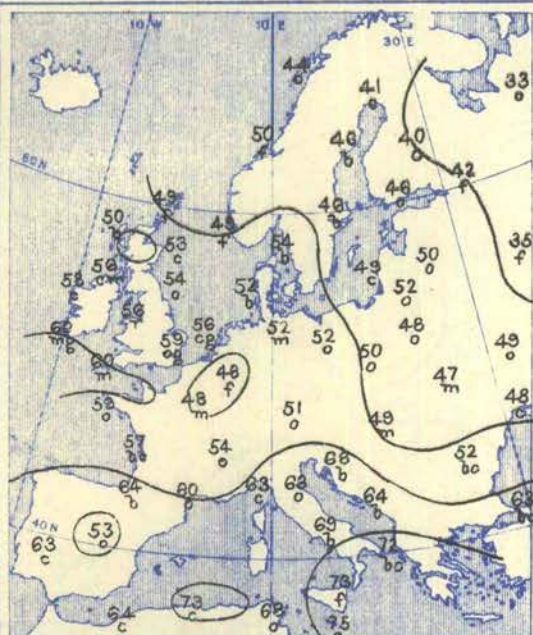
Wind light to moderate from the Eastward or North-Eastward over England, Ireland, France, and the greater part of central and southern Europe; calm or light from the Southward in the north of Scotland. Westerly or North-Westerly over Scandinavia, Denmark and Russia, with a gale at Christiansund. Subsequently veering to the South-Eastward in Ireland and freshening; no important change occurring elsewhere.

Barometer highest, 30.4 ins. and upwards over the North Sea, the south of Denmark and north Germany; 30.1 ins. and upwards in an anticyclone embracing all but the south-western and extreme northern parts of Europe. Lowest, 29.8 ins. and less in the most northern parts of Russia and Scandinavia; 30.0 ins. and less in a small shallow depression over the north-east of Spain. Anticyclone beginning to disperse later, and barometer falling in all parts of western Europe.

Thursday, 6th October.

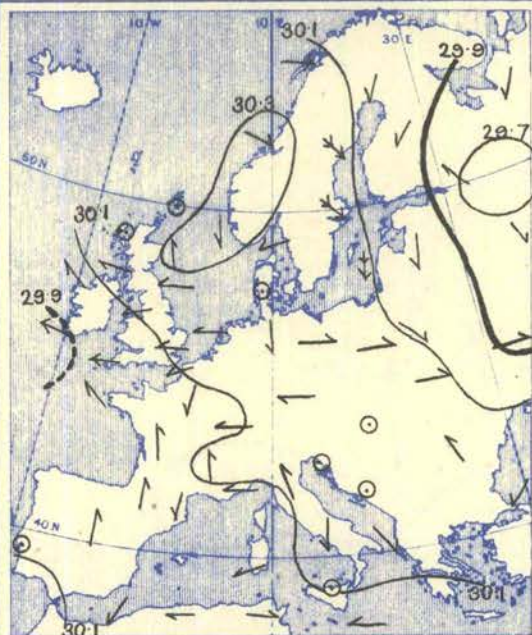
Temperature and Weather.

8 a.m.

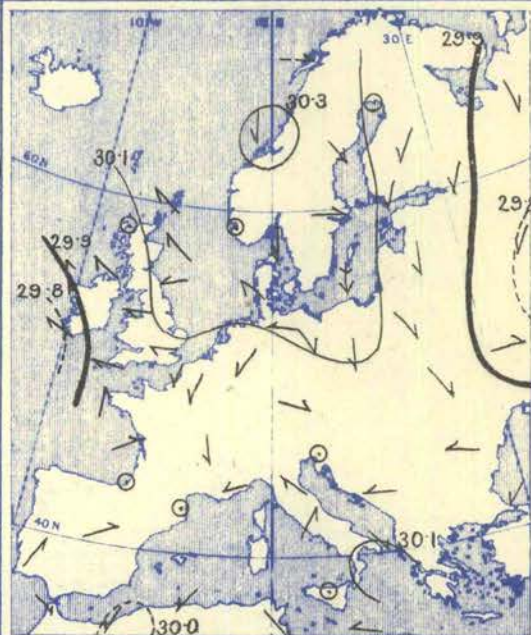


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over the United Kingdom as a whole, and also over the central and eastern parts of the Continent, with mist or fog in many places, and with slight drizzling rain at one or two of the English stations. Fine on some parts of our own extreme north and north-west coasts, as well as in Sweden, Denmark, Italy and the west of France. A little rain falling later in the south of Ireland, as well as at some of the Scandinavian stations, and a larger quantity in the Riviera and northern Italy, lightning seen at Nice.

Temperature changed little and irregularly in the western and southern countries, but fallen over northern Europe. Morning readings highest, 75° at Malta and La Calle, 73° at Palermo and Algiers, and 72° at Brindisi; above 65° at the Mediterranean and Adriatic stations generally, and touching 60° on our own extreme south-west coasts. Lowest, 33° at Archangel, 35° at Moscow, and 39° at Uleaborg. Daily maxima below 60° at most of our own northern and eastern stations, but thermometer reaching 66° at Nairn, and 69° at Stornoway. Exceeding 70° over the Channel Islands, France, and nearly the whole of southern Europe, the highest reading of all being 84° at Trieste and Palermo.

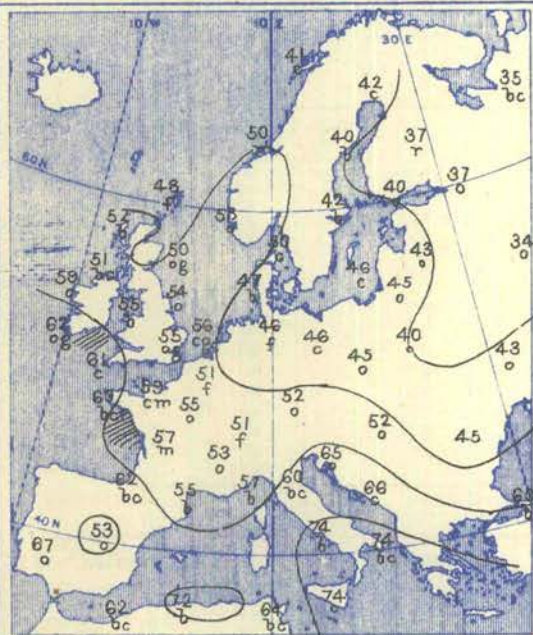
Wind light to moderate from the Eastward or North-Eastward over England and the neighbouring parts of the Continent; fresh from the South-Eastward in Ireland; calm or light from the South-Westward in the north of Scotland. Strong to a gale from the Northward or North-Westward in Sweden, and light to fresh from the same quarters over Finland, Denmark and the Baltic; Westerly or South-Westerly over eastern Germany and the south of Russia. Calm in Austria, Northerly in Italy, variable over the Spanish Peninsula, Southerly in the west of France. No important change occurring later.

Barometer highest, 30.3 ins. and upwards over Norway and the northern parts of the North Sea; 30.1 ins. and upwards in an anticyclone embracing nearly the whole of north-western, central and south-eastern Europe. Lowest, 29.7 ins. and less in a depression over the northern parts of Russia; 29.9 ins. and less in another disturbance off the south-west of Ireland. Latter disturbance subsequently spreading eastwards, and barometer falling over western Europe generally. Russian depression moving south-eastwards.

Friday, 7th October.

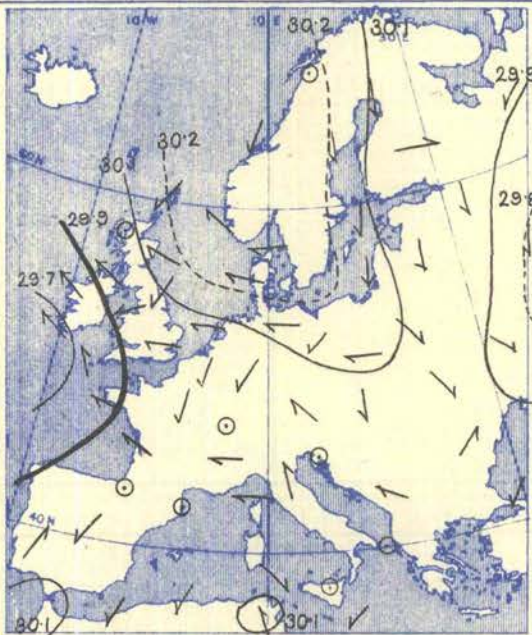
Temperature and Weather.

8 a.m.

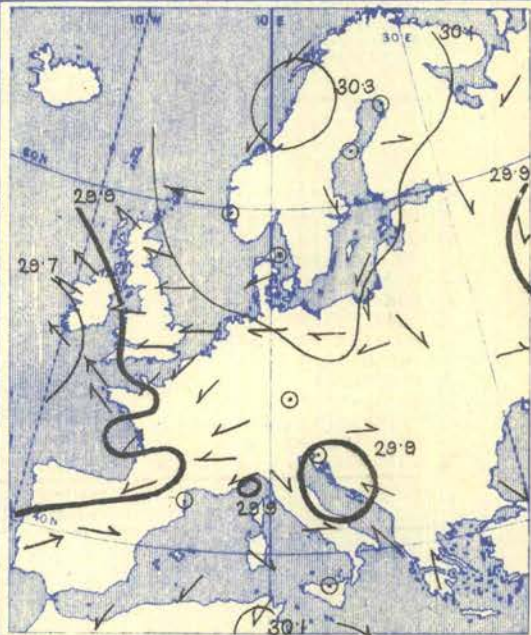


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy over the greater part of Europe, with fog in many parts of our Islands, France and Germany. Rain falling at Roche's Point and also at Christiansund and Kuopio. Fine in Sweden, as well as in Italy and the extreme south of France. Rain falling during day over the south-western parts of our Islands—rather heavily at Valencia and Seilly; slight amounts (due to wet fog) measured in the north of Scotland. Aurora seen at Stornoway and lightning at Nice. Hail and snow occurring at Moscow.

Temperature fallen in most places. Morning readings highest, 75° at Malta, 74° at Rome, Brindisi and Palermo, and 73° at Sfax; above 65° at the Mediterranean, Adriatic and Spanish coast stations generally, and above 60° on our extreme south-west coasts. Lowest, 34° at Moscow, 35° at Archangel, and 37° at Hangö, Kuopio and St. Petersburg; lowest in our Islands, 43° at Nairn. Daily maxima below 60° at most of our own northern, eastern and south-eastern stations, but thermometer touching that point at Stornoway and Nairn, and reaching 62° at Wick. Rising to 70° and upwards over southern Europe generally, and to 81° at Cagliari and Palermo.

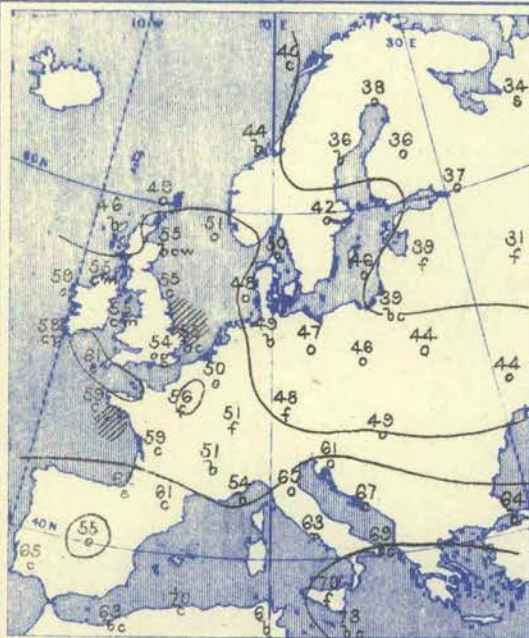
Wind light from the Eastward (South-East to North-East) over Great Britain and all adjacent parts of the Continent; fresh to strong from the South-Eastward in Ireland. Northerly over Sweden and northern Russia, but Westerly in the south of Russia. Variable over southern Europe generally. No important change occurring during day.

Barometer highest, 30.2 ins. and upwards in an anticyclone over Norway, Denmark and the northern and eastern parts of the North Sea. Lowest, 29.7 ins. and less in a depression off the south-west of Ireland; 29.8 ins. and less in a large shallow system over the southern parts of Russia. Irish depression spreading slowly eastwards during day, and barometer falling slightly over western Europe generally.

Saturday, 8th October.

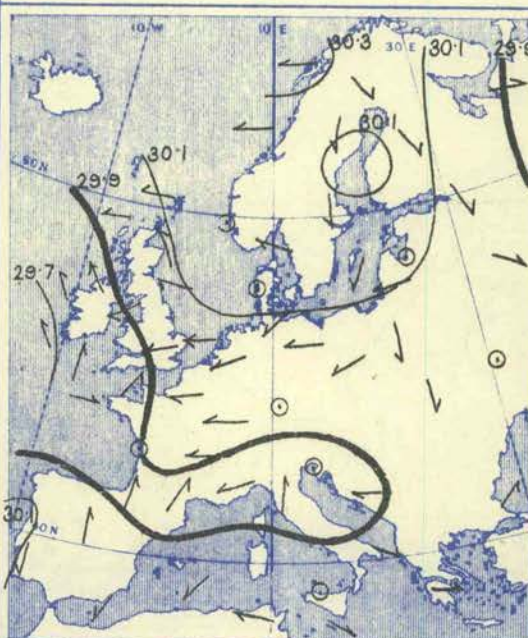
Temperature and Weather.

8 a.m.

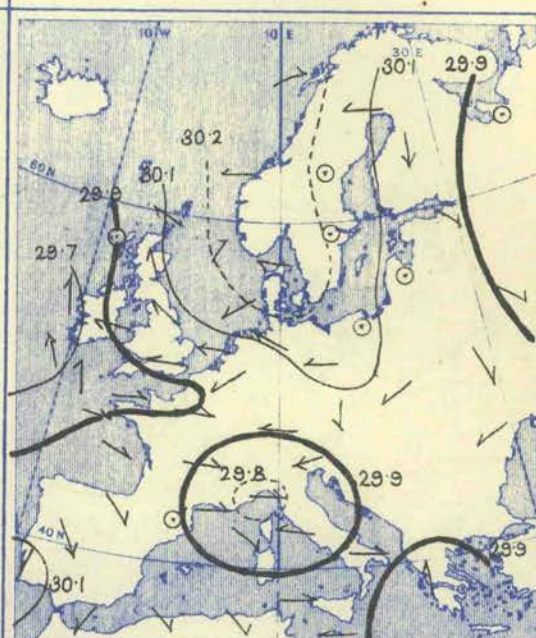


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the northern parts of Great Britain, as well as at several of the Scandinavian stations and in Greece, and the southern parts of Italy and France. Cloudy or dull elsewhere, with fog or mist in several parts of England and France, and with rain at some of our own western stations, as well as in the north-west of France. Sky clearing later in the south-east of England, but rain falling in the west and south-west of our Islands generally, and also in many parts of France—heavily in the south of Ireland. Thunderstorm occurring at Lyons, and lightning seen in evening at Valencia (Ireland).

Temperature fallen in most places. Morning readings highest, 73° at Malta, 72° at Barcelona and Patras, and 70° at Palermo, Athens, and Algiers; above 60° over southern Europe generally, and also in the Scilly and Channel Islands. Lowest, 31° at Moscow, 34° at Archangel, and 36° at Hernösand and Kuopio. Rising during day to between 60° and 65° in many parts of the United Kingdom, to 66° at Cambridge, and to 67° at Scilly; exceeding 70° over southern Europe generally, and reaching 84° at Palermo. Frost occurring over central England at night.

Wind Easterly over the greater part of England, the Netherlands, and Germany, and fresh in force on our east coasts; South-Easterly in the west and north of our Islands with a moderate gale at Donaghadee. Light to moderate from the Northward over Sweden and Finland, and from the North-Westward in the south of Russia. Southerly or South-Westerly in Greece and Italy; variable over the Spanish Peninsula and the south of France. Subsequently increasing to a moderate gale from the South-Eastward in the south of Ireland, shifting to the Westward or North-Westward over France and the Spanish Peninsula.

Barometer highest, 30.32 ins. at Bodø; 30.2 ins. and upward in an anticyclone lying over nearly the whole of Scandinavia; 30.1 ins. and upwards in another system off the Portuguese coasts. Lowest, 29.7 ins. and less in a shallow depression off the south-west of Ireland, 29.9 ins. and less in a long trough stretching from the Bay of Biscay across the south of France and northern Italy. No important change occurring over western Europe later, but new disturbance advancing to the west of Ireland in evening.

GENERAL NOTES.

At the beginning of the week barometrical pressure was highest, 30.4 ins. and upwards over central Russia, but high 30.3 ins. and upwards over England, the Netherlands, and the southern parts of the North Sea, the two areas being united by a "col" stretching across the Baltic and western Russia. The lowest pressures were found in a cyclonic system lying off the west of Norway, and as this moved eastwards the high pressure area over Russia completely gave way. During the remainder of the time the anticyclone over our Islands and central Europe moved very slowly northwards, its influence being shown, however, in all but the extreme west and south-west regions until very near the end of the week. Over the more southern parts of western Europe the winds were Easterly or North-Easterly, while in the north they were at first Westerly, then Southerly, and finally South-Easterly. The weather, though fine in places, was upon the whole dull and gloomy, with a good deal of fog or mist, the latter yielding in some places a measurable quantity of water in the rain-gauge. After the 5th a depression began to spread over our Islands from the south-west, and for a time a considerable increase of wind from the South-Eastward took place in Ireland, with rain over the south-western parts of the Kingdom generally. On the night of the 7th the depression began to disperse, but at the close of the week a new disturbance was approaching the south of Ireland, where the wind was again increasing from South and South-East, with heavy rain.

Over the south of France and northern Italy heavy falls of rain were produced by shallow depressions which appeared over Spain and the Mediterranean, the chief instance occurring on the 4th, when over an inch was measured at several stations in the south of France. Thunder and lightning were also experienced at times in various parts of southern Europe.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 236.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	39.8	?	52	?	WESTBOURNE (Emsworth)	29.0*	- 2.5	37*	- 2
STRATHPEFFER SPA	48.9	+23.9	64	+33	WATERGATE (Emsworth)	26.8	?	34	?
EDINBURGH	18.7	- 2.1	24	- 3	BRIGHTON	29.3	- 3.7	38	- 2
MORPETH	19.6	?	25	?	EASTBOURNE	26.0	- 7.5	33	- 9
NEWCASTLE-ON-TYNE	14.3	?	18	?	VENTNOR HOSPITAL	25.9	?	33	?
OSWALDKIRK (Yorkshire)	27.8	+ 3.8	36	+ 6	SOUTHPORT	15.7	?	20	?
HOLLESLEY BAY	26.7	?	34	?	COLWYN BAY	26.5	?	34	?
SHEFFIELD	12.8	?	16	?	TENBY	22.5	- 7.8	29	- 9
WORKSOP	22.1	- 2.6	28	- 2	NEWQUAY	28.4	- 2.5	36	- 1
THURCASTON (Leicestershire)	20.2	- 3.1	26	- 3	TORQUAY	21.7*	- 9.3	27*	- 11
PLUMSTEAD COMMON	19.7	?	25	?	GUERNSEY	49.6*	+16.6	63*	+22
MARGATE	22.3	- 5.7	29	- 6					

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the week.			Differ- ence of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees).		Number of Days with Rain.	Rainfall in the Week.	Differ- ence from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Pos- sible duration.	Difference from the Mean for the Week.	
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.								
Week ending June 11th, 1898	Hereford	74	42	70.0	48.2	58.3	+ 1.3	114	0	2	Inches. 0.13	Inches. - 0.39	—	—	—	—	
" " " 18th, "	Colwyn Bay	74	44	68.7	50.1	58.8	+ 3.0	118	0	1	0.02	?	64.8	?	56	?	
" " " 25th, "	Killarney	73	45	68.0	51.6	59.2	+ 0.6	120	0	6	0.29	- 0.16	—	—	—	—	
" " " July 2nd, "	Hereford	75	41	68.2	49.2	58.0	- 1.4	112	0	3	0.33	+ 0.38	—	—	—	—	
" " " " "	Newcastle	—	—	—	—	—	—	—	—	—	—	—	30.8	?	26	?	
" " " " "	Oswaldkirk	—	—	—	—	—	—	—	—	—	—	—	38.5	+ 2.6	33	+ 2	
" " " " "	Newquay	—	—	—	—	—	—	—	—	—	—	—	52.5	- 0.5	46	0	

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 41.]
Third Series.

WEEK ENDING SATURDAY, OCTOBER 15TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95. BRIGHT SUNSHINE.—The

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 242.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	64	34	55.2	43.3	49.1	3 above	Day-deg. 50	Day-deg. + 8	Day-deg. 0	Day-deg. - 5	Day-deg. 2068	Day-deg. +286	Day-deg. 395	Day-deg. -240
	1. SCOTLAND, EAST	63	29	53.9	41.5	47.5	1 above	41	- 5	1	- 5	2346	+191	428	-235
	2. ENGLAND, N.E.	60	33	55.2	44.4	49.6	1 above	53	- 5	0	- 2	2572	+242	333	-219
	3. ENGLAND, EAST	65	35	56.9	42.2	49.3	0 (average)	51	-15	0	- 3	2868	+180	410	-211
	4. MIDLAND COUNTIES	63	31	54.7	40.4	47.4	1 below	45	-17	4	- 1	2836	+161	416	-211
	5. ENGLAND SOUTH	63	37	56.6	45.2	50.7	0 (average)	61	-12	0	- 2	3168	+251	234	-246
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	61	30	55.5	42.7	48.9	1 above	48	- 6	0	- 3	2530	+270	245	-232
	7. ENGLAND, N.W.	63	35	55.1	43.4	49.1	1 below	50	-11	0	- 2	2731	+255	215	-247
	8. ENGLAND, S.W.	66	29	58.1	45.5	51.8	1 above	69	+ 1	0	- 1	3024	+290	205	-158
	9. IRELAND, NORTH	60	29	55.2	43.5	49.2	1 above	50	- 4	0	- 2	2672	+294	227	-171
	10. IRELAND, SOUTH	64	30	57.5	44.9	51.0	1 above	63	+ 1	0	- 2	3089	+401	165	-138
	—CHANNEL ISLANDS.	64	42	60.1	50.1	54.9	1 above	90	+ 1	0	0	3562	+480	55	- 93

DISTRICTS. (See p. 242.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10ths of in. 5	10ths of in. 7 less	196	+ 9	42.7	+ 6.3	25	+ 7	34	+10	1134	+165	30	+ 5	
	1. SCOTLAND, EAST	5	6	2 less	151	- 2	19.5	- 4.8	8	-13	12	-16	1212	+ 63	32	+ 2	
	2. ENGLAND, N.E.	5	7	0 (average)	131	-12	14.7	- 5.3	16	- 5	21	- 5	1130	+ 8	31	+ 1	
	3. ENGLAND, EAST	4	5	2 less	114	-25	13.6	- 6.3	21	- 7	27	- 9	1376	- 11	36	0	
	4. MIDLAND COUNTIES	4	4	3 less	118	-18	13.9	- 7.8	14	- 9	18	-12	1274	+ 66	35	+ 2	
	5. ENGLAND, SOUTH	4	3	5 less	106	-26	12.8	- 8.9	14	-12	19	-16	1384	- 2	38	0	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	2	10 less	170	+10	30.6	- 5.7	16	-11	21	-15	1225	+ 30	33	+ 1	
	7. ENGLAND, N.W.	4	4	6 less	143	- 5	24.2	- 2.0	22	+ 2	30	+ 3	1319	+122	36	+ 4	
	8. ENGLAND, S.W.	5	8	2 less	131	-18	21.5	- 7.5	25	- 2	33	- 2	1550	+ 72	42	+ 2	
	9. IRELAND, NORTH	5	4	5 less	183	+ 9	27.4	- 1.0	24	+ 2	32	+ 3	1176	+ 56	31	+ 1	
	10. IRELAND, SOUTH	5	19	11 more	145	-11	28.7	- 0.6	31	+ 5	41	+ 8	1339	+ 68	36	+ 2	
	— CHANNEL ISLANDS.	6	6	3 less	149	- 7	16.7	- 7.4	27	-10	36	-13	1791	+126	50	+ 4	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather was unsettled and rainy at the commencement of the week, but subsequently became fair for a time in most districts, although a good deal of mist prevailed. Towards the end of the period very rainy conditions again set in in the south-west (especially in Ireland S.) and spread gradually to all parts of the Kingdom. In the west of Scotland and at most of our south-eastern stations, however, the fall was slight.

Temperature differed very little from the mean over the Kingdom as a whole, but was 3° above in Scotland N. The highest of the maxima occurred, as a rule, on the 9th, and ranged from 66° in England S.W., and 65° in England E., to 60° in England N.E. and Ireland N. The lowest of the minima were generally recorded about the middle of the week, and ranged from 29° in Scotland E., Ireland N. and England S.W., to 37° in England S. and to 42° in the Channel Islands.

Rainfall greatly exceeded the mean in Ireland S., and just equalled it in England N.E.; in all other districts there was a deficit, that in Scotland N. and W., England S. and N.W., and Ireland N., being large.

Bright Sunshine was deficient in nearly all parts of Great Britain, but exceeded the mean over Ireland as well as in England N.W. and Scotland N. The percentage of the possible duration ranged from 41 in Ireland S. and 36 in the Channel Islands, to 18 in the Midland Counties and to 12 in Scotland E.

Barometer and Wind.—At the commencement of the week a "V"-shaped depression was travelling eastwards across the Kingdom, causing Easterly and South-Easterly winds on all our eastern coasts. This system was followed by an anticyclone, which extended over the country from the south-westward, but the winds and weather on our south-eastern coasts were affected by a low-pressure system over the Netherlands and North Germany. During Wednesday the barometer commenced to fall decidedly in the south-west, and from that time until the close of the week, depressions, increasing in depth, spread over our western and south-western coasts from the Atlantic. Easterly to South-Easterly winds consequently set in very generally, and gradually increased to a gale on many parts of our northern and north-eastern coasts, and to fresh or strong breezes in most other parts of the Kingdom.

II.—DATA from which the SUMMARY on page 241 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	55	43	52.7	45.3	48.9	+ 2.6	48	0	6	0.53	- 0.42	*	*	*	*
	Stornoway	59	39	56.6	41.6	48.9	+ 2.8	50	1	3	0.58	- 0.54	28.2	+ 7.7	39	+12
	Wick	62	37	55.9	45.9	50.8	+ 4.4	62	0	6	0.74	+ 0.08	*	*	*	*
	Lairg	63	34	54.1	40.3	47.0	+ 2.1	42	5	4	0.38	- 0.50	*	*	*	*
	Glencarron	62	35	55.6	41.2	48.2	+ 2.5	47	2	4	0.31	- 1.67	*	*	*	*
	Fort Augustus	64	38	56.2	44.3	50.1	+ 2.6	57	0	3	0.36	- 0.61	25.6	+11.0	35	+16
	Fort William	57	36	55.3	44.6	49.8	+ 2.0	55	0	3	0.31	- 1.46	22.1	+ 2.7	30	+ 5
1. SCOTLAND, E.	Nairn	63	35	55.9	39.3	47.4	+ 0.6	49	8	3	0.13	- 0.47	*	*	*	*
	Aberdeen	57	41	53.4	45.9	49.5	+ 1.9	53	0	7	0.57	- 0.14	6.6	-16.2	9	-22
	Braemar	56	29	49.3	37.1	43.0	- 0.8	28	14	5	1.16	+ 0.32	4.8†	-14.8†	7†	-18†
	Ochertyre	63	32	56.6	41.6	48.9	+ 1.9	50	1	5	0.56	- 0.38	*	*	*	*
	Leith	62	40	55.1	43.3	49.0	+ 0.2	49	0	4	0.30	- 0.20	*	*	*	*
	Marchmont	58	36	53.1	41.6	47.2	+ 0.6	38	1	5	0.62	- 0.18	12.3	- 8.5	17	-10
2. ENGLAND, N.E.	Alnwick Castle	56	33	53.3	42.1	47.5	- 0.1	39	0	7	0.50	- 0.22	*	*	*	*
	Durham	59	40	54.7	43.3	48.8	+ 1.0	48	0	6	0.96	+ 0.28	12.1	- 9.9	16	+12
	Shields	59	40	55.7	45.3	50.4	+ 1.7	59	0	5	1.14	+ 0.56	*	*	*	*
	Scarborough	57	41	54.9	45.4	50.0	+ 0.8	56	0	5	0.83	+ 0.11	19.3	?	26	?
	York	60	36	56.4	41.6	48.8	+ 0.2	49	1	5	0.31	- 0.31	21.6	- 0.9	29	0
	Spurn Head	58	46	56.0	48.4	52.1	+ 1.7	71	0	4	0.31	- 0.22	*	*	*	*
3. ENGLAND, E.	Hillington	60	35	57.4	40.3	48.6	- 0.7	53	5	4	0.27	- 0.38	22.5	- 1.8	30	- 2
	Yarmouth	58	44	55.6	47.3	51.3	+ 0.9	65	0	3	1.18	+ 0.46	*	*	*	*
	Geldeston	62	37	57.9	43.0	50.2	+ 0.2	57	0	3	0.76	+ 0.11	16.8	-11.4	22	-15
	Cambridge	65	37	59.3	40.7	49.7	0.0	59	4	3	0.06	- 0.49	19.6	- 6.5	26	- 8
	Rothamsted	58	35	54.2	39.6	46.7	- 2.1	43	7	5	0.20	- 0.50	16.3	-10.1	22	-12
	Bawtry (Hesley Hall)	63	32	56.6	37.9	47.0	- 1.3	52	11	3	0.06	- 0.57	*	*	*	*
4. MIDLAND COUNTIES	Loughborough	62	31	57.7	39.0	48.1	- 1.2	55	8	4	0.23	- 0.41	*	*	*	*
	Stamford (Duddington)	61	35	57.6	41.1	49.1	- 0.4	53	3	3	0.09	- 0.61	*	*	*	*
	Cheadle	57	39	53.5	42.3	47.7	- 0.1	40	0	4	0.38	- 0.38	*	*	*	*
	Shirley (near Solihull)	57	38	53.7	42.6	48.0	- 0.5	42	0	5	0.29	?	*	*	*	*
	Churchstoke	58	32	53.5	38.8	45.9	- 2.9	41	9	5	0.98	+ 0.33	*	*	*	*
	Cirencester	55	33	52.0	40.4	46.0	- 2.0	35	5	5	0.43	- 0.41	11.1	-12.3	15	-16
5. ENGLAND, S.	Oxford	57	34	53.0	40.9	46.8	- 2.8	38	3	6	0.66	+ 0.01	8.3	-16.7	11	-22
	London	63	39	55.6	43.9	49.6	- 0.7	53	0	3	0.37	- 0.27	8.5†	-10.9†	11†	-16†
	North Foreland	58	43	56.0	48.6	52.2	+ 0.8	71	0	3	0.11	?	*	*	*	*
	Cranley	59	37	55.5	42.9	49.0	- 1.3	49	0	3	0.21	?	*	*	*	*
	Dungeness	61	38	58.0	42.6	50.1	- 1.8	57	0	3	0.14	- 0.64	*	*	*	*
	Hastings (St. Leonards)	61	43	57.4	46.0	51.5	- 0.4	67	0	3	0.14	- 0.75	22.1	- 8.2	29	-11
6. SCOTLAND, W.	Southampton	62	37	58.0	45.5	51.6	+ 0.1	67	0	5	0.26	- 0.54	12.6	-14.4	17	-20
	Hurst Castle	60	41	57.4	47.0	52.1	+ 0.1	71	0	5	0.65	- 0.15	*	*	*	*
	Shaftesbury	60	42	54.8	44.8	49.7	+ 1.3	54	0	4	0.45	- 0.44	*	*	*	*
	Laudale (Loch Sunart)	59	39	56.3	44.2	50.1	+ 2.0	57	0	2	0.07	- 1.71	*	*	*	*
	Glasgow	56	38	53.2	44.5	48.7	+ 1.6	47	0	2	0.13	- 0.72	1.5	-15.5	2	-22
	Ardrossan	58	39	55.4	43.0	49.0	- 0.1	49	0	4	0.21	- 0.63	*	*	*	*
7. ENGLAND, N.W.	Glenlee	59	30	55.5	37.9	46.4	- 1.2	48	11	3	0.16	- 1.13	*	*	*	*
	Gilcrux (Cumberland)	59	38	55.2	42.8	48.8	+ 1.0	48	0	3	0.07	?	24.1	?	33	?
	Douglas (Isle of Man)	61	37	57.2	44.0	50.4	+ 1.5	59	0	5	0.42	- 0.56	21.0	- 6.1	28	- 8
	Stonyhurst	58	36	54.1	43.4	48.6	+ 0.6	46	0	3	0.16	- 1.01	25.0	+ 2.0	33	+ 3
	Blackpool	63	36	57.0	41.4	49.0	- 0.7	52	2	3	0.17	- 0.79	26.8	+ 4.3	36	+ 6
	Manchester (Prestwich)	57	35	54.6	41.2	47.7	- 0.9	43	2	2	0.04	- 0.91	12.5	?	17	?
8. ENGLAND, S.W.	Liverpool Obsy. (Bidston)	59	39	53.7	43.0	48.2	- 1.7	43	0	4	0.26	- 0.56	*	*	*	*
	Llandudno	61	41	55.5	45.0	50.1	- 0.9	57	0	5	0.73	- 0.17	21.3	+ 1.3	28	+ 1
	Holyhead	59	42	55.4	46.6	50.9	- 0.8	62	0	6	0.86	- 0.09	*	*	*	*
	Llandovery	65	29	59.6	40.3	49.7	+ 1.7	61	5	5	0.33	- 0.91	*	*	*	*
	Pembroke	61	47	56.7	50.6	53.6	+ 1.7	81	0	5	0.76	- 0.17	33.2	+ 7.2	44	+10
	Clifton	58	39	55.6	43.5	49.4	- 0.4	52	0	4	0.51	- 0.34	*	*	*	*
9. IRELAND ^N	Arlington (N. Devon)	60	39	56.1	43.6	49.7	- 0.1	54	0	6	0.40	- 0.92	*	*	*	*
	Cullompton	63	34	59.2	40.8	49.7	+ 0.1	59	3	6	0.91	+ 0.01	17.7	- 6.0	24	- 7
	Falmouth	62	47	58.1	50.0	53.9	+ 1.5	83	0	4	0.68	- 0.54	26.7	- 2.3	35	- 2
	Plymouth	63	40	59.4	46.0	52.5	+ 0.6	74	0	5	1.82	+ 0.92	21.6	- 4.6	28	- 8
	Prawle Point	66	44	60.0	49.0	54.3	+ 2.2	86	0	5	0.82	0.00	*	*	*	*
	Malin Head	56	44	54.1	47.7	50.8	+ 1.3	62	0	4	0.31	?	*	*	*	*
10. IRELAND S.	Londonderry	59	38	55.2	43.1	49.0	+ 0.3	49	0	5	0.14	- 0.83	*	*	*	*
	Edenfel (Omagh)	59	34	53.9	41.3	47.4	+ 0.8	41	2	4	0.16	- 0.69	*	*	*	*
	Belmullet	60	40	56.7	45.0	50.7	+ 0.6	61	0	7	0.87	- 0.29	*	*	*	*
	Markree Castle	60	29	56.0	40.0	47.8	- 0.1	49	6	4	0.06	- 0.94	27.2	+ 6.0	36	+ 8
	Armagh	61	35	55.4	41.8	48.4	+ 0.7	46	1	6	0.46	- 0.22	20.5	- 2.5	27	- 3
	Donaghadee	59	37	55.4	45.3	50.2	+ 1.1	57	0	5	0.60	- 0.10	*	*	*	*
CHANNEL ISLANDS	Dublin	62	40	56.5	45.7	50.9	+ 1.0	62	0	3	0.75	+ 0.10	28.0	+ 1.0	37	+ 1
	Parsonstown	62	32	57.0	42.1	49.3	+ 1.5	51	0	4	0.19	- 0.53	33.0	+ 8.5	44	+13
	Kilkenny	63	30	56.7	42.1	49.2	- 0.1	50	0	4	1.08	+ 0.40	*	*	*	*
	Roche's Point	64	40	59.1	49.6	54.2	+ 2.8	85	0	5	3.66	+ 2.76	*	*	*	*
	Valencia	62	40	58.7	46.4	52.4	+ 0.5	73	0	6	3.27	+ 2.10	31.4	+ 6.1	42	+ 9
	Killarney	63	36	58.1	43.2	50.4	0.0	59	0	5	3.28	?	*	*	*	*
	Foynes	60	38	56.5	44.9	50.5	+ 1.2	60	0	5	1.17	?	*	*	*	*
	Scilly (St. Mary's)	63	43	59.9	50.4	55.0	+ 1.2	91	0	5	0.78	- 0.10	40.3	?	53	?
	Jersey	64	42	60.3	49.7	54.8	+ 0.4	90	0	6	0.48	- 0.54	16.8	-14.8	22	-20

Stations marked $\mathcal{A}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

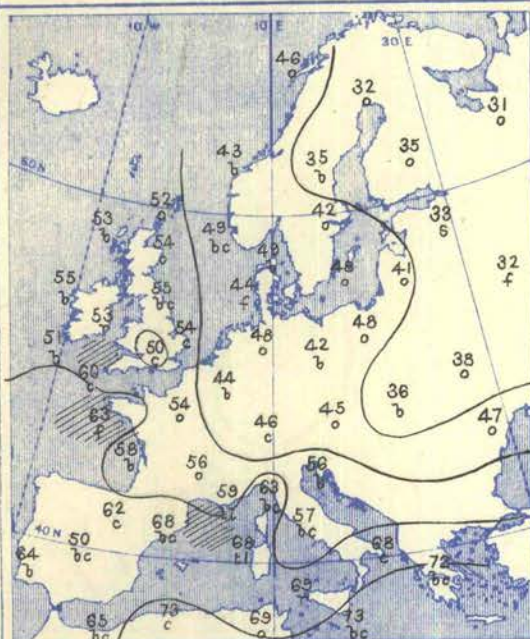
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 9th October.

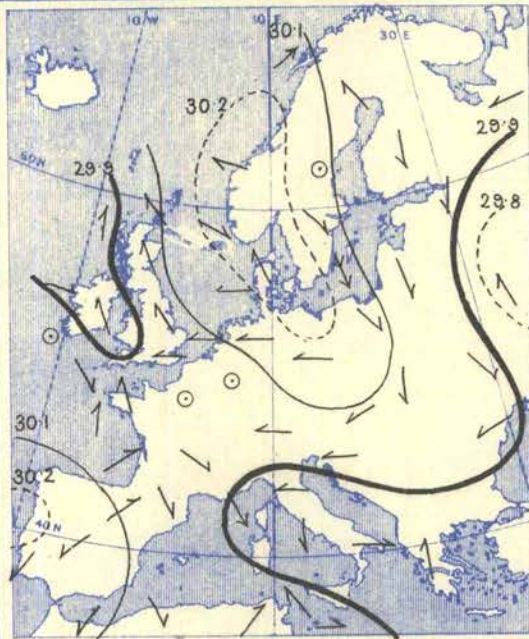
Temperature and Weather.

8 a.m.

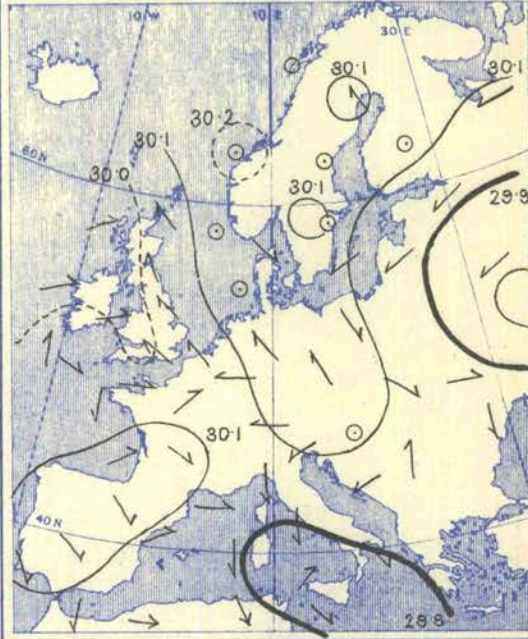


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the northern and eastern parts of Great Britain and also in the west and south of Ireland; rainy on our north-west coasts, as well as at some of the English Channel stations. Fine over southern Europe as a whole, but thunderstorms reported at Nice and Sanguinaire. Fine also in Norway, but cloudy or dull over the northern and central countries generally, with snow at St. Petersburg. A little rain falling later in most parts of north-western Europe, and considerable quantities at Trieste and Palermo.

Temperature fallen in most places. Morning readings highest, 73° at Malta and Algiers, 72° at Athens, and 70° at Patras; above 60° over southern Europe generally, and just touching that point in the Scilly and Channel Islands. Lowest, 31° at Archangel, 32° at Uleaborg and Moscow, and 33° at St. Petersburg; below 40° in many parts of Sweden and Russia, and ranging between 40° and 44° over central England. Daily maxima below 60° at most of our own northern, eastern and south-eastern stations, but thermometer reaching 62° at Leith and 63° at Nairn. Exceeding 70° over southern Europe as a whole, and touching 79° at Palermo and Malta.

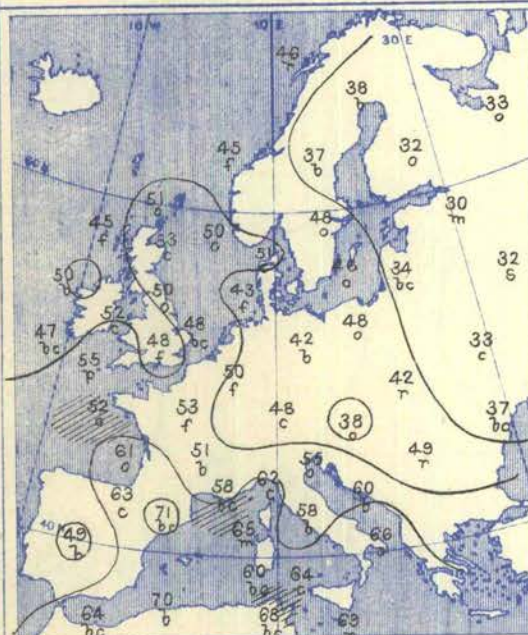
Wind South-Easterly in all the more northern and eastern parts of our Islands, and strong in force in the north of Ireland; North-Westerly over the south of Ireland and the Bristol Channel; Southerly or South-Westerly in the west of France. Light to moderate from the Eastward in Denmark and Germany, but North-Westerly in Italy and the south of France. Calm over the Gulf of Bothnia, but Northerly or North-Westerly over Russia and the south of Scandinavia. Subsequently backing to the South-Westward or Southward in the west of Ireland; no important change occurring elsewhere.

Barometer highest, 30.1 ins. to 30.2 ins. and upwards in an anticyclone lying over Scandinavia, Denmark, Germany and the North Sea, and also in another system over the Spanish Peninsula. Lowest, 29.8 ins. and less in a shallow depression over central Russia; 29.8 ins. and less in a small disturbance over the Gulf of Genoa; 29.9 ins. and less in a "V"-shaped system extending from the north-westward over Ireland and Wales. Russian depression growing somewhat deeper in course of day; "V"-shaped disturbance over Ireland moving eastwards across England.

Monday, 10th October.

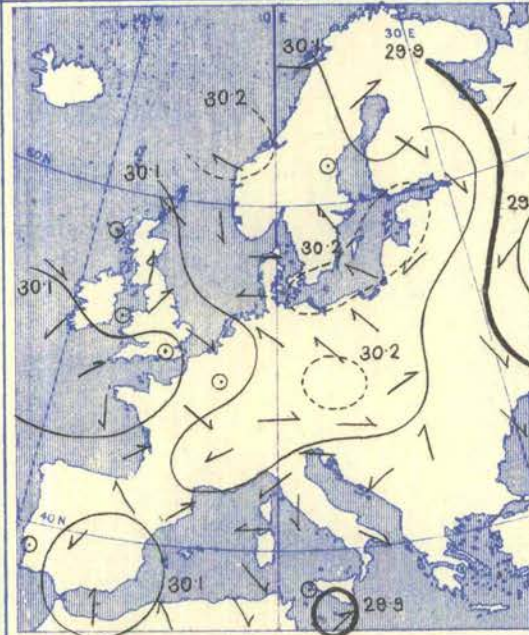
Temperature and Weather.

8 a.m.

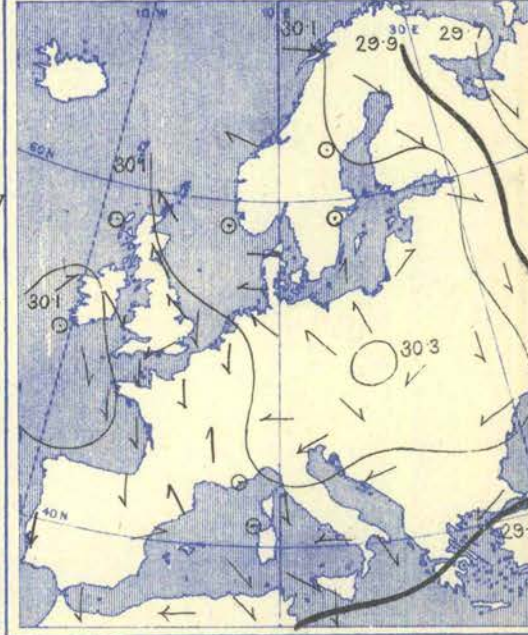


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over England, Scotland and the western parts of the Continent generally, with fog or mist in many places. Fine in Ireland and Wales and also over the Gulfs of Bothnia and Finland and nearly the whole of Germany and southern Europe. Dull at most of the Russian and Austrian stations, with rain at Lemberg and Hermanstadt and snow at Moscow. A little rain falling later in the west and extreme north of our Islands, as well as in some parts of central England and France; thunder and lightning occurring at night at Hurst Castle and lightning only at Prawle Point.

Temperature falling in most places. Morning readings highest, 71° at Barcelona, 70° at Algiers, 69° at Malta, and 68° at Sfax; above 60° at most of the Mediterranean stations. Lowest, 28° at Helsingfors, 30° at Hangö and St. Petersburg, and 32° at Kuopio and Moscow; below 40° in many parts of Austria and south Germany. Daily maxima below 60° over nearly the whole of the United Kingdom, but thermometer exceeding that point on our south-west coasts and in France; exceeding 70° over southern Europe generally, and reaching 81° at Cagliari and 82° at Cape Béarn.

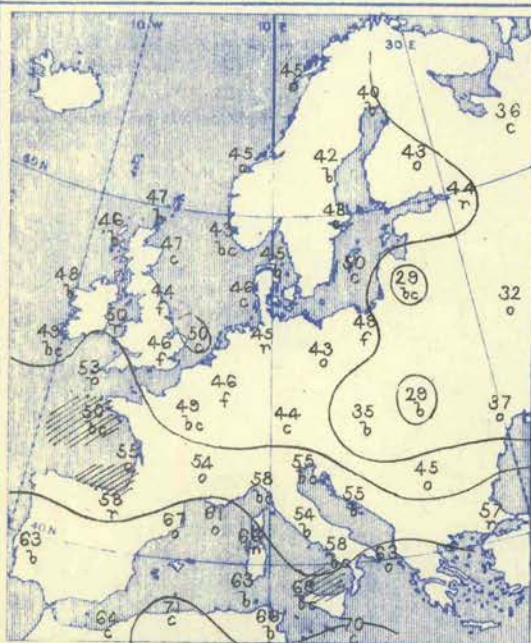
Wind light and rather variable in our Islands, but chiefly Southerly on our northern coasts, and Northerly in the south, as well as in the north of France. Calm in the Gulf of Bothnia and South-Westerly in the extreme north of Russia; Northerly to Easterly over the Baltic and the south of Scandinavia, variable in Germany and Austria; Northerly or North-Westerly over Italy and the south of Russia; Easterly or North-Easterly in the south of France; variable over the Spanish Peninsula. No important change occurring during day.

Barometer highest, 30.1 ins. to 30.2 ins. and upwards in an anticyclone lying over nearly the whole of northern and central Europe, and also in two other systems lying respectively over Spain and over the south of our Islands and the north of France. Lowest, 29.7 ins. and less in a depression over central Russia; 29.9 ins. and less in a small system near Malta. No important change occurring later over western Europe, but barometer falling slightly in France. Depression over central Russia moving northwards.

Tuesday, 11th October.

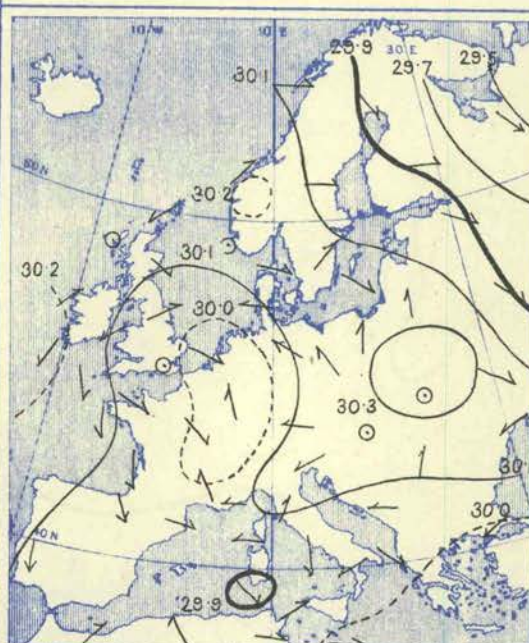
Temperature and Weather.

8 a.m.

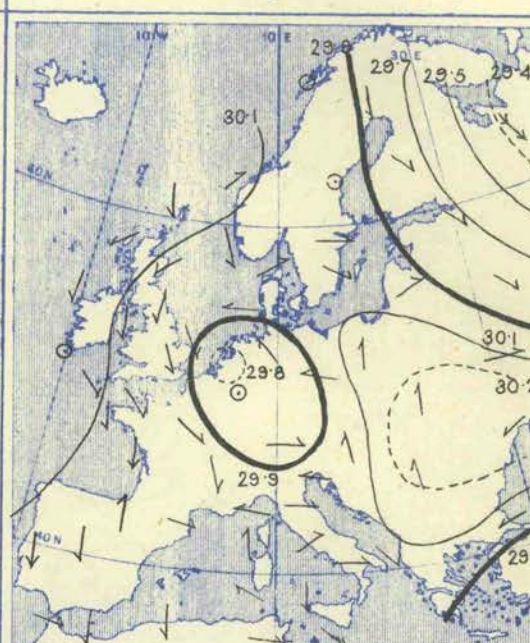


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning foggy or misty over Great Britain and the Netherlands, with rain at one or two of the English stations. Fine in Ireland as well as in the Shetlands and Hebrides, the north of France, and the greater part of southern Europe. Rainy in the south of France and the western parts of Germany; cloudy or dull at most of the Russian and Scandinavian stations, with rain at St. Petersburg. Showers occurring later in many parts of the United Kingdom, with thunder and lightning over the English Channel; heavy rain falling at Yarmouth and at some of the French stations—as much as 1.5 ins. at Besançon.

Temperature fallen in most places, but risen quickly in northern Russia. Morning readings highest, 71° at Algiers, 70° at Malta, and 68° at Palermo; above 60° at most of the Mediterranean, Adriatic and Spanish coast stations. Lowest, 27° at Warsaw and Kiev, and 29° at Riga and Lemberg, below 40° in many parts of Poland and Austria, and just touching that point at Parsonstown. Daily maxima below 60° over the United Kingdom generally, and below 55° at some of our northern and south-eastern stations, thermometer exceeding 70° in many parts of southern Europe and reaching 79° at Cagliari and Palermo.

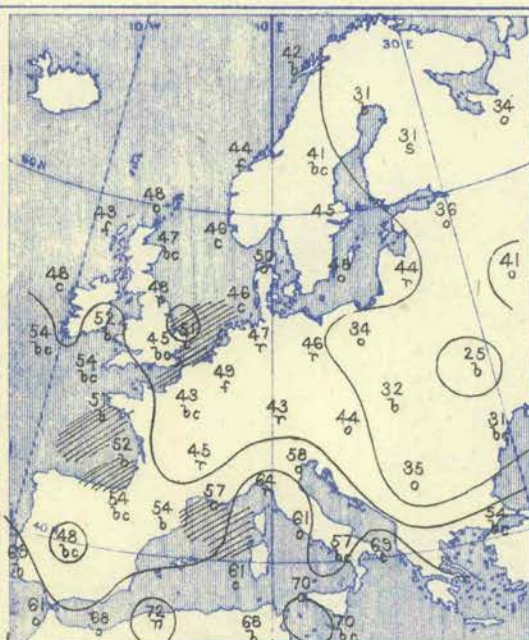
Wind light to moderate from the Northward or North-Westward over the greater part of our Islands, and also over the north and west of France and the Spanish Peninsula, Easterly or South-Easterly over Germany, Denmark and the Netherlands. Westerly or North-Westerly over Sweden and Russia; calm or variable in Austria; rather variable also in Italy, but chiefly North. Easterly in the south of France. Subsequently veering to the North-Eastward in Scotland; no important change occurring elsewhere.

Barometer highest, 30.2 ins. to 30.3 ins. and upwards in an anticyclone over Austria and the neighbouring parts of Germany and Russia; 30.2 ins. and upwards in another system lying off the west of Ireland. Lowest, 29.5 ins. and less in a depression over the extreme north of Russia; 30.0 ins. and less in two shallow systems—one lying over the Netherlands, western Germany and the east of France, and the other over the western parts of the Mediterranean. Depression over Netherlands subsequently becoming rather deeper, and barometer falling in most parts of western Europe.

Wednesday, 12th October.

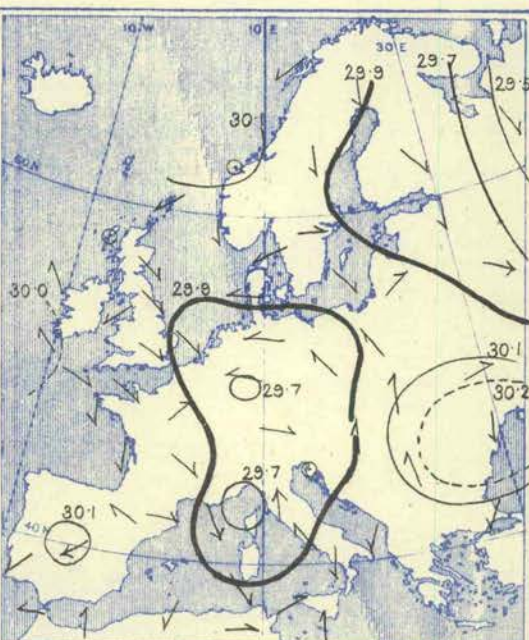
Temperature and Weather.

8 a.m.

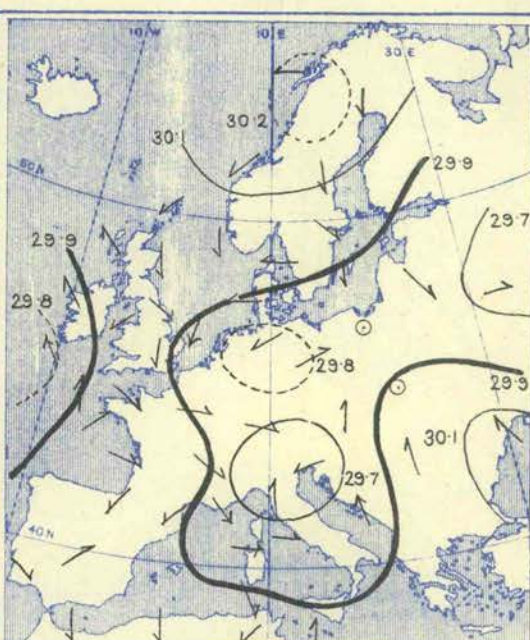


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in most parts of the United Kingdom, France and Spain, but with fog in places. Rainy over Germany and Holland, and showery in the east of England. Fine in Scandinavia and also in the southern parts of Russia and Italy; dull over northern Italy, with rain at Leghorn and Florence. Showers falling later in several parts of Great Britain, and rain setting in at night over the south of Ireland. Rain occurring also over Germany, the Netherlands and the north-east of France, as well as in Italy.

Temperature fallen in most parts of our Islands and France, and also in Russia and Scandinavia. Morning readings highest, 72° at Algiers, 70° at Palermo, Malta and Sfax, and 69° at Brindisi; above 60° at the Mediterranean, Adriatic and Spanish coast stations generally. Lowest, 25° at Kiev, 26° at Nicolaieff, and 27° at Kharkov; below the freezing point also in Finland and Lapland, and very little above it over central Ireland. Daily maxima below 60° in nearly all parts of the United Kingdom, and below 55° at several of our northern and eastern stations; thermometer rising to 65° and upwards in many parts of southern Europe, and reaching 79° at Malta. Ground frost occurring over central England at night.

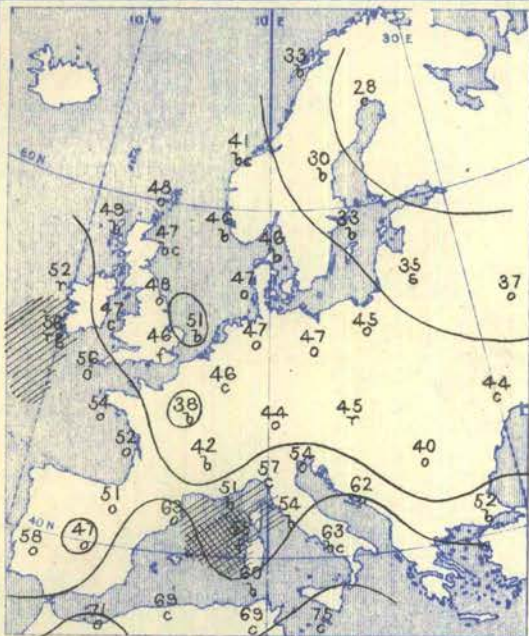
Wind light to moderate from the Eastward or North-Eastward over the south of Norway, Denmark, north Germany and Holland, and from the North-Westward or Northward over the eastern and southern parts of Great Britain and the greater part of France; Westerly or South-Westerly in south Germany; Southerly in Austria and northern Italy. Southerly or South-Easterly in Ireland; calm in the west of Scotland. Northerly or North-Westerly in Sweden and Russia. Northerly wind subsequently blowing strongly on the south-east coasts of England, and South-Easterly wind freshening in the south of Ireland.

Barometer highest, 30.2 ins. and upwards over the extreme south of Russia; 30.0 ins. to 30.1 ins. and upwards over our Islands, Norway, France and Spain. Lowest, 29.5 ins. and less over northern Russia; 29.7 ins. and less in two depressions—one (shallow) with its centre near Münster, the other (much deeper) over the Gulf of Genoa. Former depression beginning to disperse later, but latter system spreading over the northern parts of Italy and the Adriatic. New disturbance approaching the south-west of Ireland from the Atlantic in evening.

Thursday, 13th October.

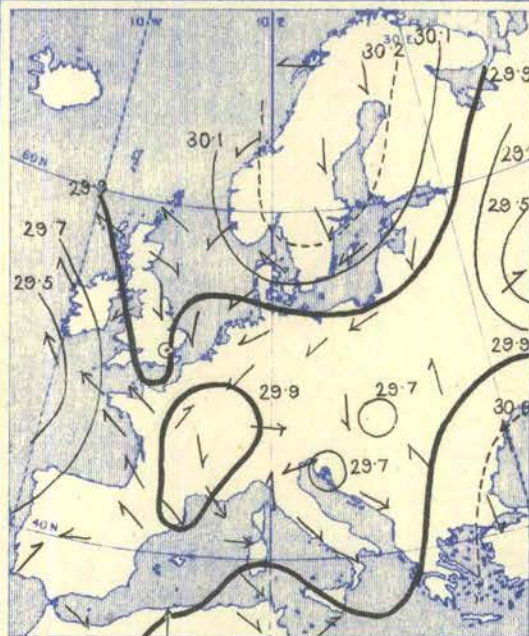
Temperature and Weather.

8 a.m.

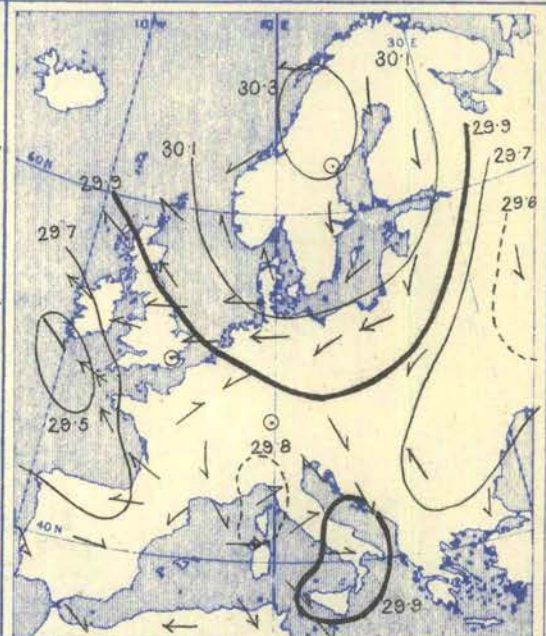


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine at some of our own northern stations, as well as over Scandinavia, the Baltic, and the greater part of southern Europe; dull elsewhere, with fog over the inland parts of England, passing showers on our east coasts, and steady rain in the west and south of Ireland, as well as in many parts of Germany and Austria. Heavy rain falling later in the west and south of Ireland, and the west of France—as much as 2.1 ins. at Valencia, and passing showers on our east coast. Rain falling also in Austria and the south of Russia. Snow reported at Wisby in evening.

Temperature fallen in Scandinavia, and also over southern Europe; changed irregularly elsewhere. Morning readings highest, 75° at Malta, 71° at Oran, and 60° at Algiers and La Calle; above 60° at several of the Mediterranean stations. Lowest, 28° at Haparanda, 30° at Hernösand, and 33° at Bodö and Stockholm; below 40° in most parts of Scandinavia and Russia, as well as in central France and the north of England. Daily maxima below 60° in our Islands, and as low as 49° in London; thermometer exceeding 70° in Spain and southern Italy, the highest reading of all being 81° at Palermo and Malta.

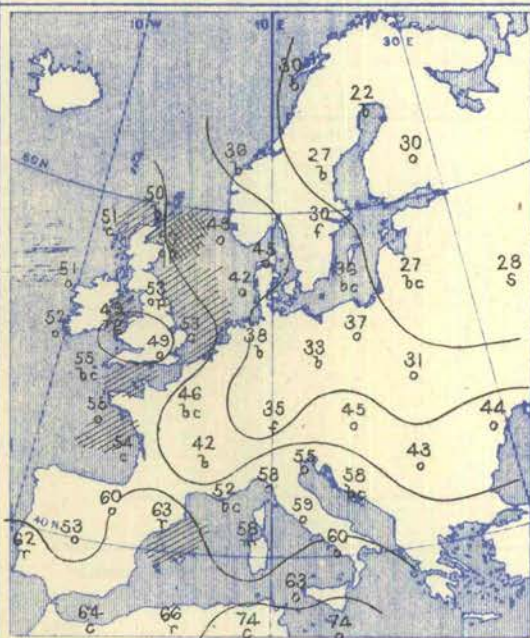
Wind South-Easterly on the west coasts of our Islands and France, and strong to a gale in force in the south-west. Moderate to strong from the Eastward or North-Eastward over Scandinavia, Denmark, the Baltic, and North Germany; light from the Northward (North-East to North-West) on our own east and south-east coasts. Variable over Austria, Italy, and the Spanish Peninsula; Westerly in south Germany, North-Westerly in the south of France. Strong South-Easterly gale blowing later at the mouth of the English Channel.

Barometer highest, 30.2 ins. in an anticyclone lying over Scandinavia; 30.0 ins. and upwards over the Black Sea and Asia Minor; 29.9 ins. and upwards over central France. Lowest, 29.5 ins. and less in two depressions, one lying off the south-west of Ireland, and the other over central Russia. Irish depression subsequently spreading eastwards, and barometer falling over western Europe generally.

Friday, 14th October.

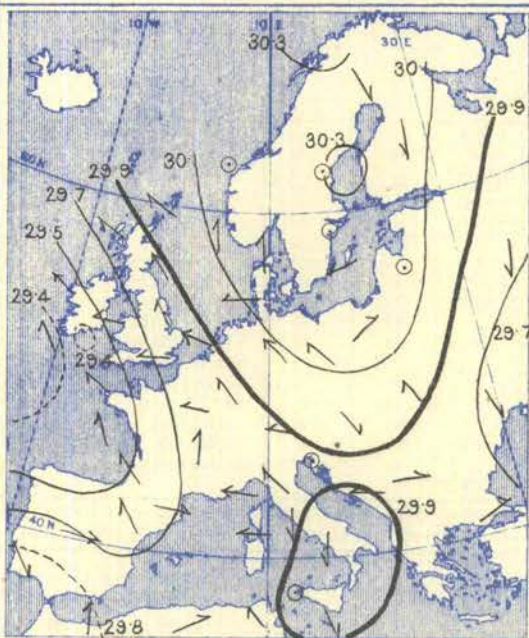
Temperature and Weather.

8 a.m.

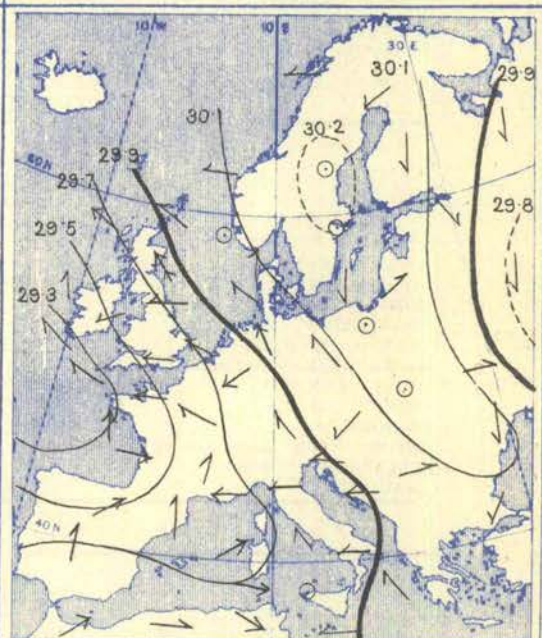


Barometer and Wind.

8 a.m.



6 p.m.



Weather cloudy or dull over western and southern Europe generally, with rain at several of our own western and northern stations, as well as at Lisbon and Barcelona. Fine over the greater part of Scandinavia and Germany; dull in Russia, with snow at Moscow. Rain falling later in nearly all parts of western and southern Europe, heavily in places, but sky clearing temporarily in the west and south of Ireland. Thunderstorm occurring at Bordeaux.

Temperature risen over Great Britain, France and Spain, fallen in most other countries. Morning readings highest, 74° at Malta and La Calle, 70° at Tunis, and 66° at Algiers; above 60° at several of the Mediterranean and Spanish coast stations. Lowest, 22° at Haparanda, 26° at Uleaborg, and 27° at Hernösand and Riga; below the freezing point in most parts of Sweden, Russia and eastern Germany. Daily maxima in our Islands below 60° on all but the extreme south-west coasts, and below 65° at several of the northern and eastern stations; thermometer exceeding 60° in France and Spain and exceeding 70° in southern Italy, the highest reading of all being 86° at Palermo.

Wind Easterly or South-Easterly over western and central Europe generally, and strong in force on nearly all the more exposed parts of our coasts. Westerly or North-Westerly over the Spanish Peninsula, variable in Italy. Calm over the Gulf of Bothnia, light from the Northward at most of the Russian stations. Subsequently increasing to a moderate or fresh gale on several parts of our north-west, north and east coasts.

Barometer highest, 30.30 ins. at Bodö and Hernösand; 30.1 ins. and upwards in an anticyclone lying over the whole of Scandinavia, Denmark and north Germany. Lowest, 29.4 ins. and less in a small depression at the mouth of the St. George's Channel, and also in another system off the south-west of Ireland; 29.6 ins. and less in another disturbance over the south of Russia. Irish depression subsequently spreading eastwards, and barometer falling over western Europe generally. Russian disturbance moving away to the eastward.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.VOL. XV. No. 42.]
Third Series.

WEEK ENDING SATURDAY, OCTOBER 22ND, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a “Day-degree” signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of “Accumulated Temperature” will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 248.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	64	35	51.6	42.9	47.1	2 above	Day-deg. 36	Day-deg. + 1	Day-deg. 0	Day-deg. - 8	Day-deg. 2104	Day-deg. +287	Day-deg. 395	Day-deg. - 248
	1. SCOTLAND, EAST	66	27	52.2	43.1	47.5	3 above	39	- 1	0	- 9	2385	+190	428	- 244
	2. ENGLAND, N.E.	66	43	56.4	48.1	52.1	5 above	71	+26	0	- 4	2643	+268	333	- 223
	3. ENGLAND, EAST	68	42	59.5	49.4	54.3	7 above	86	+33	0	- 5	2954	+213	410	- 216
	4. MIDLAND COUNTIES	65	39	56.7	48.0	52.2	5 above	71	+23	0	- 8	2903*	+180	417*	- 218
	5. ENGLAND SOUTH	66	43	60.3	50.8	55.4	6 above	94	+34	0	- 4	3262	+285	234	- 250
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	61	37	53.8	46.4	50.0	3 above	56	+11	0	- 6	2587*	+282	245	- 228
	7. ENGLAND, N.W.	65	45	56.0	48.8	52.3	4 above	72	+23	0	- 3	2803	+278	215	- 250
	8. ENGLAND, S.W.	66	43	58.1	49.8	53.8	5 above	83	+25	0	- 2	3108*	+325	205	- 160
	9. IRELAND, NORTH	64	34	54.4	45.4	49.8	2 above	55	+ 8	0	- 4	2727	+302	227	- 175
	10. IRELAND, SOUTH	64	40	56.2	47.6	51.8	3 above	69	+15	0	- 4	3159*	+417	165	- 142
	-CHANNEL ISLANDS-	67	46	61.2	53.8	57.4	5 above	108	+30	0	0	3670	+510	55	- 93

DISTRICTS. (See p. 248.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 16	10ths of in. 4 more	202	+10	Ins. 44.3	+ 6.7	16	- 2	23	- 2	1150	+164	30	+ 5
	1. SCOTLAND, EAST	6	23	16 more	157	0	21.8	- 3.2	8	-11	11	-16	1220	+ 52	32	+ 2
	2. ENGLAND, N.E.	6	22	16 more	137	-10	16.9	- 3.8	6	-14	9	-18	1137*	- 5	30	0
	3. ENGLAND, EAST	6	14	7 more	120	-23	15.0	- 5.6	15	-11	22	-14	1391	- 22	36	0
	4. MIDLAND COUNTIES	6	22	15 more	124	-16	16.1	- 6.3	3	-19	4	-26	1276*	+ 47	34	+ 1
	5. ENGLAND, SOUTH	7	19	11 more	113	-22	14.7	- 7.8	7	- 16	10	-22	1391	- 19	38	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	12	1 more	175	+11	31.8	- 5.7	4	-15	6	-20	1229	+ 15	33	+ 1
	7. ENGLAND, N.W.	7	14	5 more	150	- 2	25.6	- 1.6	5	-14	7	-20	1324	+107	35	+ 3
	8. ENGLAND, S.W.	7	32	21 more	138	-15	24.7	- 5.4	7	-18	10	-23	1557	+ 55	41	+ 1
	9. IRELAND, NORTH	6	12	3 more	189	+11	28.6	- 0.7	13	- 8	19	- 9	1189	+ 50	31	+ 1
	10. IRELAND, SOUTH	5	8	1 less	150	-10	29.6*	- 0.6	16	- 8	22	-10	1355	+ 60	35	+ 1
	- CHANNEL ISLANDS-	7	18	9 more	156	- 5	18.5	- 6.6	18	- 7	24	- 9	1809	+119	49	+ 3

Bright Sunshine.—Owing to the absence of mean values for some of the stations the “differences from the mean” for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period was very unsettled and rainy in all parts of the Kingdom, the rain being very heavy in most parts of Great Britain.

Temperature was considerably above the mean, the excess ranging from 2° in Scotland N. and Ireland N., to as much as 6° in England S. and to 7° in England E. The highest of the maxima were recorded, as a rule, towards the close of the week, but on the 17th in some parts of eastern England; they ranged from 68° in England E. and 67° in the Channel Islands, to 61° in Scotland W. The lowest of the minima were registered during the earlier days of the period, and varied from 27° in Scotland E. (at Nairn) and from 34° in Ireland N., to 45° in England N.W., and to 46° in the Channel Islands.

Rainfall exceeded the mean in all districts excepting Ireland S., where it was slightly below the mean value. Over England and the east of Scotland the fall was extremely large; in most cases it was more than twice, and in some districts more than three times as much as the mean. The greatest falls at individual stations were 5.22 ins. at Arlington, 4.32 ins. at Clifton, 3.92 ins. at Braemar, and 3.82 ins. at Marchmont.

Bright Sunshine was much less than the mean generally. The percentage of the possible duration ranged from 24 in the Channel Islands, 23 in Scotland N., and 22 in Ireland S. and England E., to 10 in England S. and S.W., 6 in Scotland W. and to 4 in the Midland Counties.

Barometer and Wind.—During the earlier part of the week a deep depression (which was advancing to our south-western districts at the end of the preceding week) moved slowly eastwards and north-eastwards over the Channel and the south of England, and then north-westward to the Irish Sea and apparently thence to the Atlantic again, where it dispersed. Strong Easterly gales were experienced over the northern half of the Kingdom during the passage of this system, and fresh or strong Southerly and South-Easterly winds in the south and south-east. The Easterly gale on the north-east coast of Scotland was most persistent and did not subside until Wednesday night. Other depressions skirted our extreme north-western coasts towards the end of the week, causing fresh or strong Southerly gales in Scotland, and fresh to very strong Southerly and South-Westerly winds in most other parts of the Kingdom.

II.—DATA from which the SUMMARY on page 247 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine				
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.	
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.								
												Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	58	35	49.1	41.1	45.0	- 0.1	25	2	7	1.33	+ 0.33	*	*	*	*	*
	Stornoway	58	39	53.1	42.6	47.7	+ 2.8	40	0	5	1.28	+ 0.12	24.2	+ 4.9	36	+ 9	*
	Wick	62	36	53.4	42.4	47.7	+ 2.8	40	0	7	1.15	+ 0.43	*	*	*	*	*
	Lairg	63	35	50.0	40.7	45.2	+ 1.6	28	4	7	2.03	+ 1.15	*	*	*	*	*
	Glencarron	64	38	51.1	42.5	46.7	+ 2.1	33	0	5	2.13	+ 0.08	*	*	*	*	*
	Fort Augustus	62	42	51.6	45.6	48.5	+ 2.7	46	0	6	0.74	- 0.19	11.9	- 1.1	17	- 1	*
	Fort William	64	39	52.9	45.1	48.9	+ 2.4	48	0	5	2.48	+ 0.74	9.9	- 7.9	14	- 10	*
1. SCOTLAND, E.	Nairn	65	27	52.0	39.4	45.5	+ 0.6	35	7	7	0.34	- 0.23	*	*	*	*	*
	Aberdeen	62	39	52.9	44.4	48.5	+ 2.6	46	0	6	1.05	+ 0.37	9.1	- 12.9	46	- 18	*
	Braemar	59	33	47.0	39.2	43.0	+ 0.7	19	8	7	3.92	+ 3.02	5.8†	- 10.4†	8†	- 15†	*
	Ochertyre	63	40	52.7	43.3	47.9	+ 2.5	41	0	7	3.21	+ 2.26	*	*	*	*	*
	Leith	66	44	56.0	46.4	51.1	+ 4.2	64	0	4	1.43	+ 1.00	*	*	*	*	*
	Marchmont	60	42	52.4	45.7	49.0	+ 4.2	49	0	7	3.82	+ 3.05	5.8	- 13.8	8	- 19	*
2. ENGLAND, N.E.	Alnwick Castle	65	43	55.3	46.3	50.7	+ 4.5	61	0	7	2.47	+ 1.78	*	*	*	*	*
	Durham	64	43	55.6	47.5	51.4	+ 5.6	66	0	6	3.10	+ 2.41	7.3	- 12.7	10	- 17	*
	Shields	66	45	55.9	48.0	51.8	+ 4.8	69	0	5	2.03	+ 1.45	*	*	*	*	*
	Scarborough	64	45	57.6	48.3	52.8	+ 6.3	76	0	6	1.98	+ 1.35	2.6	- 17.8	4	- 23	*
	Spurn Head	65	48	57.7	50.4	53.9	+ 5.3	83	0	5	1.32	+ 0.79	*	*	*	*	*
	Hillington	66	42	59.8	49.1	54.3	+ 7.0	86	0	7	1.45	+ 0.83	14.1	- 7.9	20	- 10	*
3. ENGLAND, E.	Yarmouth	65	48	58.7	50.6	54.5	+ 5.9	98	0	5	1.27	+ 0.57	*	*	*	*	*
	Geldeston	67	47	60.8	50.1	55.3	+ 7.1	93	0	5	1.21	+ 0.56	24.4	- 0.9	34	0	*
	Cambridge	68	45	60.3	48.1	54.0	+ 6.3	84	0	6	1.20	+ 0.65	9.5	- 14.6	13	- 19	*
	Rothamsted	62	46	58.1	49.0	53.4	+ 6.6	80	0	7	1.73	+ 1.03	4.2	- 20.7	6	- 27	*
	Bawtry (Hesley Hall)	64	39	57.0	46.3	51.5	+ 4.9	67	0	6	1.49	+ 0.87	*	*	*	*	*
	Loughborough	64	46	57.9	49.0	53.3	+ 6.0	79	0	6	1.75	+ 1.11	*	*	*	*	*
4. MIDLAND COUNTIES	Stamford (Duddington)	65	46	57.7	49.1	53.3	+ 6.0	79	0	6	1.84	+ 1.18	*	*	*	*	*
	Cheadle	60	44	54.0	47.2	50.5	+ 4.6	60	0	7	1.57	+ 0.77	*	*	*	*	*
	Shirley (near Solihull)	61	43	56.3	47.4	51.7	+ 5.4	68	0	7	2.11	?	*	*	*	*	*
	Churchstoke	63	44	55.2	47.7	51.3	+ 4.7	65	0	7	3.11	+ 2.31	2.2	- 18.8	3	- 25	*
	Hereford	65	43	56.7	48.1	52.3	+ 5.1	72	0	7	2.85	+ 2.24	*	*	*	*	*
	Gloucester	62	44	57.3	48.0	52.5	+ 6.1	74	0	6	2.53	+ 1.79	1.0	- 21.8	1	- 30	*
5. ENGLAND, S.	Oxford	63	47	58.1	49.3	53.6	+ 5.8	81	0	6	2.54	+ 1.94	2.4	- 20.8	3	- 28	*
	London	65	46	60.6	50.4	55.4	+ 6.7	94	0	7	1.50	+ 0.86	6.2†	- 11.7†	9†	- 15†	*
	North Foreland	65	46	61.6	51.1	56.2	+ 7.3	99	0	7	1.06	?	*	*	*	*	*
	Cranley	64	43	59.6	48.7	54.0	+ 5.9	84	0	7	2.25	?	*	*	*	*	*
	Dungeness	62	45	60.9	51.6	56.1	+ 5.7	99	0	7	0.79	+ 0.01	*	*	*	*	*
	Hastings (St. Leonards)	64	47	60.5	52.3	56.3	+ 6.4	100	0	7	1.39	+ 0.49	11.5	- 16.1	16	- 21	*
6. SCOTLAND, W.	Southampton	66	44	60.7	51.4	55.9	+ 6.4	97	0	7	3.45	+ 2.65	2.4	- 23.4	3	- 32	*
	Hurst Castle	65	49	60.4	52.1	56.1	+ 6.2	99	0	7	2.51	+ 1.71	*	*	*	*	*
	Shaftesbury	66	45	58.0	48.4	53.1	+ 6.5	78	0	6	2.32	+ 1.46	*	*	*	*	*
	Laudale (Loch Sunart)	59	37	53.4	44.7	48.9	+ 1.8	48	0	4	0.55	- 1.17	*	*	*	*	*
	Glasgow	60	42	52.4	46.1	49.2	+ 3.2	50	0	5	1.70	+ 0.82	6.8	- 8.9	10	- 12	*
	Ardrossan	58	42	53.3	45.7	49.4	+ 1.5	52	0	5	0.31	- 0.57	*	*	*	*	*
7. ENGLAND, N.W.	Glenlee	60	40	53.9	44.7	49.2	+ 3.4	50	0	5	1.43	+ 0.11	*	*	*	*	*
	Gilcrux (Cumberland)	59	44	52.5	47.3	50.3	+ 4.0	58	0	7	1.54	?	2.1	?	3	?	*
	Douglas (Isle of Man)	61	48	56.1	49.6	52.8	+ 5.2	76	0	6	1.76	+ 0.72	3.6	- 20.4	5	- 28	*
	Stonyhurst	60	46	54.7	48.8	51.7	+ 5.4	68	0	7	1.11	- 0.07	2.4	- 17.7	3	- 24	*
	Blackpool	63	46	57.1	48.6	52.7	+ 4.8	75	0	7	1.76	+ 0.83	4.3	- 15.7	6	- 21	*
	Manchester (Prestwich)	61	46	55.7	49.0	52.3	+ 5.5	72	0	7	1.21	+ 0.31	1.3	?	2	?	*
8. ENGLAND, S.W.	Liverpool Obsy. (Bidston)	64	45	56.1	48.1	52.0	+ 3.6	70	0	7	1.82	+ 1.03	*	*	*	*	*
	Llandudno	65	45	56.4	49.0	52.6	+ 3.0	74	0	6	1.76	+ 0.86	8.5	- 9.7	12	- 14	*
	Holyhead	60	46	55.9	49.3	52.5	+ 2.6	74	0	7	0.90	- 0.10	*	*	*	*	*
	Llandovery	62	43	57.7	47.9	52.7	+ 5.9	75	0	7	2.13	+ 0.85	*	*	*	*	*
	Pembroke	61	48	57.1	50.7	53.8	+ 3.0	83	0	7	1.97	+ 1.02	8.7	- 15.0	12	- 21	*
	Clifton	63	46	58.2	49.5	53.7	+ 5.4	82	0	7	4.32	+ 3.49	*	*	*	*	*
9. IRELAND N.	Arlington (N. Devon)	60	45	55.7	47.6	51.5	+ 3.3	67	0	7	5.22	+ 3.75	*	*	*	*	*
	Cullompton	66	46	59.2	49.5	54.2	+ 7.2	85	0	5	3.73	+ 2.88	5.0	- 16.6	7	- 22	*
	Falmouth	62	49	58.6	51.9	55.2	+ 4.3	92	0	7	3.29	+ 2.04	9.8	- 17.4	14	- 22	*
	Plymouth	66	49	59.8	50.6	55.1	+ 4.8	92	0	7	2.41	+ 1.54	5.8	- 18.8	8	- 25	*
	Prawle Point	60	49	58.1	51.0	54.5	+ 4.2	88	0	7	2.38	+ 1.53	*	*	*	*	*
	Malin Head	60	38	53.6	45.0	49.2	+ 0.8	50	0	6	1.12	?	*	*	*	*	*
10. IRELAND S.	Londonderry	62	39	54.0	45.4	49.6	+ 2.7	53	0	6	1.63	+ 0.64	*	*	*	*	*
	Edenfel (Omagh)	62	34	53.4	43.6	48.4	+ 3.3	45	0	5	1.63	+ 0.78	*	*	*	*	*
	Belmullet	60	41	54.9	45.9	50.3	+ 0.6	58	0	7	1.22	+ 0.02	*	*	*	*	*
	Markree Castle	62	36	55.0	43.9	49.3	+ 2.7	51	0	5	0.67	- 0.36	14.7	- 6.0	21	- 7	*
	Armagh	62	40	53.8	45.8	49.7	+ 3.5	54	0	5	0.98	+ 0.28	11.2	- 9.8	16	- 12	*
	Donaghadee	64	46	56.0	47.9	51.8	+ 2.1	69	0	5	1.31	+ 0.52	*	*	*	*	*
CHANNEL ISLANDS	Dublin	64	40	55.7	47.1	51.3	+ 2.8	65	0	7	1.54	+ 0.83	10.4	- 14.6	15	- 20	*
	Parsonstown	62	42	55.0	45.9	50.3	+ 3.5	58	0	5	0.45	- 0.23	12.4	- 9.7	17	- 13	*
	Kilkenny	64	41	55.1	46.9	50.9	- 3.2	62	0	5	0.57	- 0.19	*	*	*	*	*
	Roche's Point	61	44	56.9	49.3	53.0	+ 2.7	77	0	4	0.97	- 0.01	*	*	*	*	*
	Valencia	62	46	57.6	49.4	53.4	+ 2.6	80	0	6	0.75	- 0.55	25.4	+ 1.6	35	+ 3	*
	Killarney	63	40	56.6	47.1	51.7	+ 2.6	68	0	5	0.93	?	*	*	*	*	*
	Foynes	?	?	?	?	?	?	?	?	?	0.40	?	*	*	*	*	*
	Scilly (St. Mary's)	63	46	59.7	52.7	56.1	+ 3.6	99	0	7	1.67	+ 0.83	10.9	?	15	?	*
	Jersey	67	53	62.7	54.9	58.7	+ 6.2	117	0	7	1.94	+ 0.86	24.3	- 5.0	33	- 6	*

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

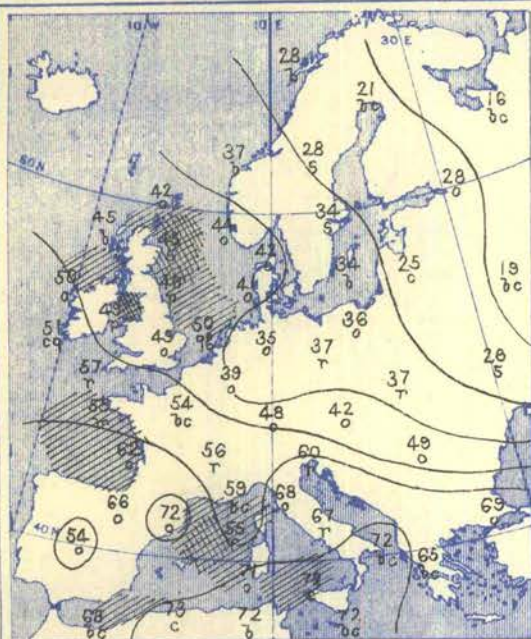
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 16th October.

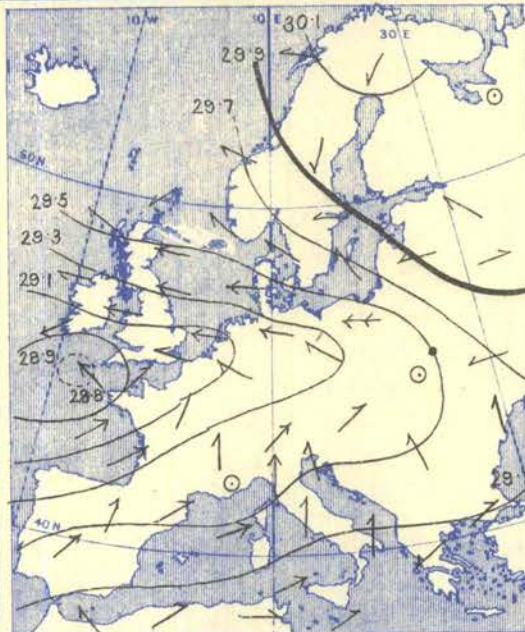
Temperature and Weather.

8 a.m.

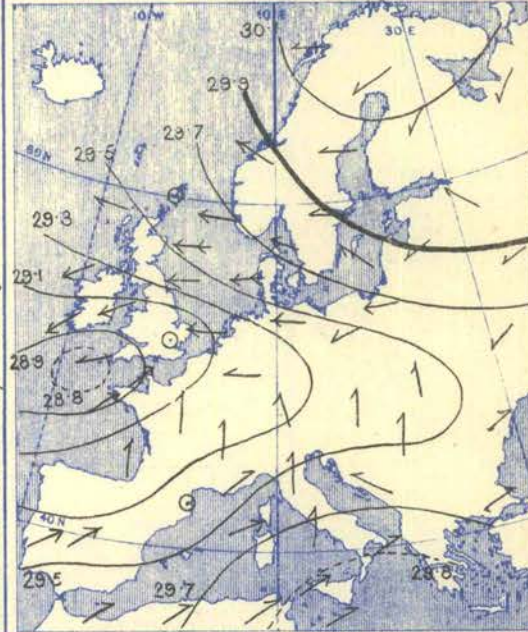


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over Europe as a whole, with rain in many places and snow at several of the Swedish stations, as well as at Swinemunde and Kiev. Fair or fine in Scotland and the west of Norway, as well as in southern Italy. Heavy rain falling later in many parts of Great Britain and France, and considerable quantities of rain or snow in Austria and the south of Russia—as much as 2.5 ins. at Prague. Thunderstorm occurring at Jersey in morning.

Temperature fallen in most of the north-western countries, but risen elsewhere. Morning readings highest, 73° at Algiers and 72° at Barcelona, Palermo, Brindisi, Malta and La Calle; above 60° over southern Europe generally, and very little below it in the Scilly and Channel Islands. Lowest, 16° at Archangel, 19° at Moscow, 21° at Uleaborg, and 23° at Haparanda; below the freezing point over Russia and the north of Scandinavia generally. Daily maxima below 50° on some parts of our northern coasts, and below 55° in all but the extreme southern parts of the Kingdom. Thermometer exceeding 70° in many parts of southern Europe, the highest readings of all being 91° at Palermo and 82° at Pesaro and Malta.

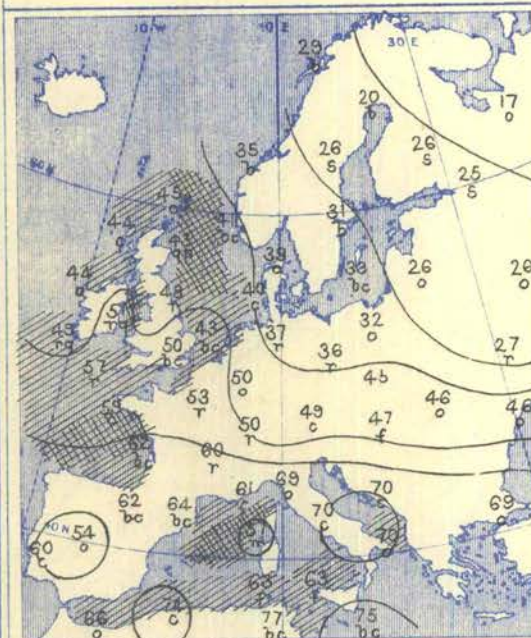
Wind Easterly over our Islands and the northern parts of the Continent, and strong to a gale in force on several of the more exposed parts of our western and eastern coasts, as well as in Denmark and north Germany. Light to fresh from the Southward or South-Westward over France, Spain and Italy; variable in Greece; Southerly or South-Easterly in Austria and the south of Russia. Subsequently increasing to a gale from the Eastward in the east of Scotland; shifting to the Southward in the south of England and blowing a gale from the South-Westward in the north-west of France.

Barometer highest, 30.1 ins. and upwards in an anticyclone over the north of Scandinavia; 29.8 ins. and upwards over Algeria and the central parts of the Mediterranean. Lowest, 28.8 ins. and less in a well-marked depression with its centre about 100 miles to the south-westward of the Scilly Islands. Depression subsequently advancing slowly eastwards to the mouth of the Channel and barometer rising again at some of the Irish stations.

Monday, 17th October.

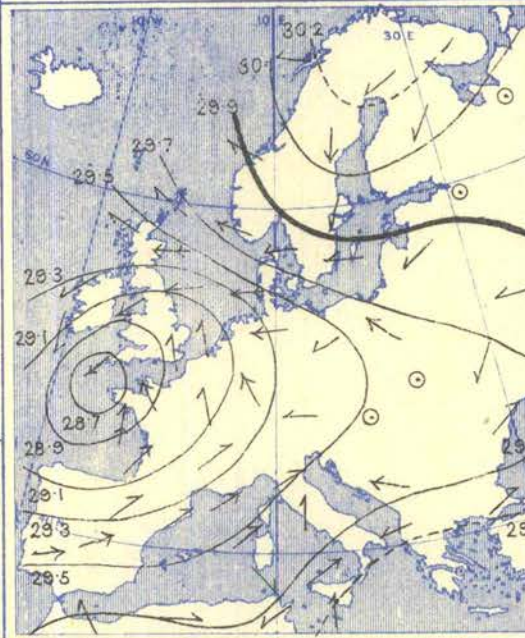
Temperature and Weather.

8 a.m.

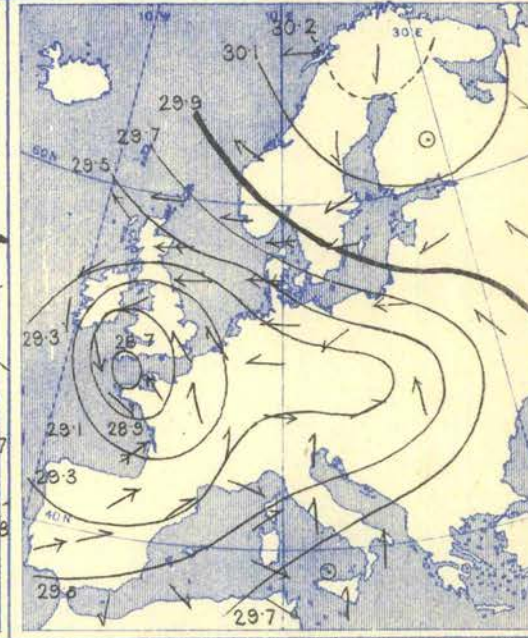


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with rain in the south-west, west, and north of England, and also in north Germany and central France, and with showers in the east of Scotland. Thunderstorms occurring in early morning at Lyons and Nice, snow falling in several parts of Sweden and Finland, as well as at Swinemunde. Heavy rain falling later in many parts of western Europe. Thunderstorms occurring at night over the south of France, and lightning seen on the east coast of England, as well as at Prawle Point and Biarritz.

Temperature risen over England, but changed rather irregularly elsewhere. Morning readings highest, 77° at La Calle, 75° at Malta, and 74° at Algiers; above 65° at several of the Italian and Mediterranean stations. Lowest, 17° at Archangel, 20° at Uleaborg, and 23° at Haparanda and Haugo; below the freezing point over Sweden and Russia generally, and below 40° over central Scotland. Remaining below 50° all day at the Scottish stations, but rising to between 60° and 65° over the central and southern parts of England. Exceeding 70° in many parts of southern Europe, and exceeding 80° at some of the Italian stations.

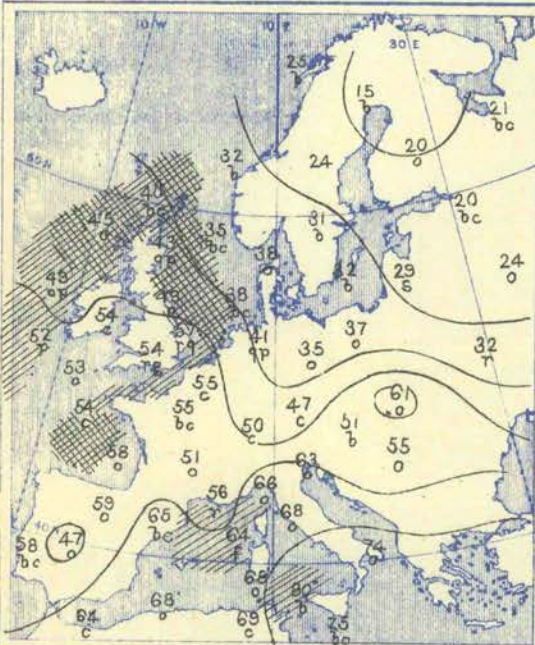
Wind strong to a gale from the Eastward over Denmark, north Germany, the south of Norway, the North Sea and the northern parts of Great Britain, and from the North-Eastward in the west of our Islands. Moderate to fresh from the South-Westward over southern Europe, strong from the Southward or South-Eastward over the English Channel and the north of France, with a gale at Lorient. Light to moderate from the North-Eastward in Sweden and Russia; calm or variable in Austria. Subsequently backing to the North-Westward at the mouth of the English Channel; gale increasing in force on the Scotch coast.

Barometer highest, 30.2 ins. and upwards in an anticyclone over the north of Scandinavia; 29.8 ins. and upwards over the extreme south-eastern parts of Europe. Lowest, 28.7 ins. and less in a deep depression with its centre at the mouth of the English Channel; gradients steep over north-western Europe generally. Depression subsequently moving very slowly north-eastward, and barometer rising on our extreme south-west coasts.

Tuesday, 18th October.

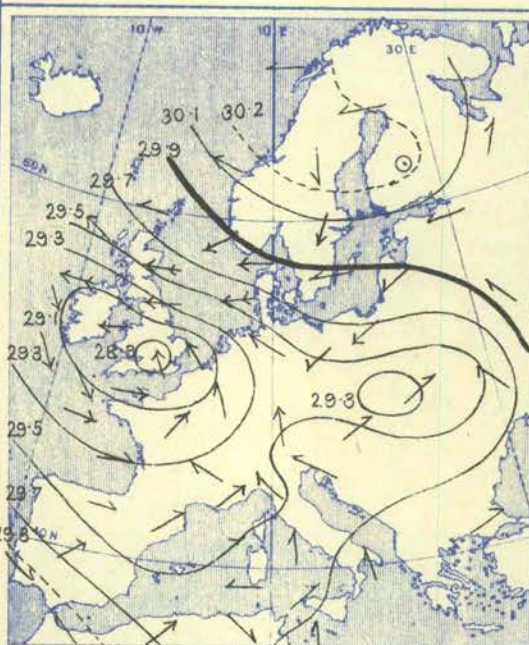
Temperature and Weather.

8 a.m.

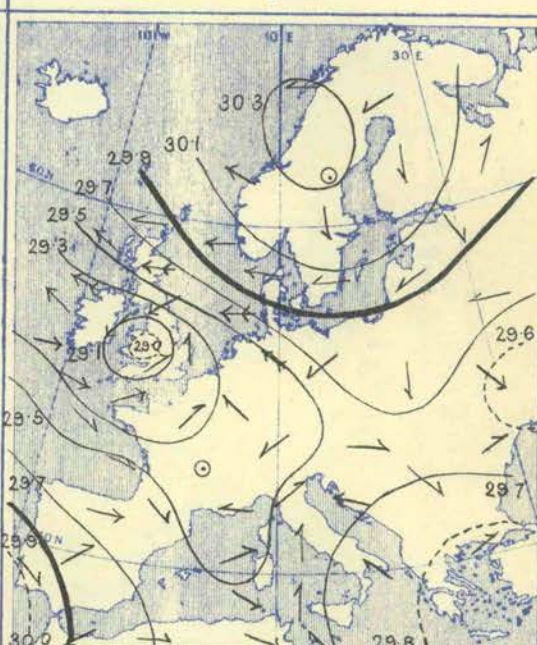


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull and unsettled over Europe as a whole, with rain in many parts of the United Kingdom, France and the Netherlands, as well as at Breslau and Kiev. Fine over the greater part of Scandinavia and northern Russia, but snow reported at Faerder, Helsingfors and Riga, as well as at Swinemunde. Rain falling during day over nearly the whole of western, central and southern Europe—heavily in many parts of England and France. Lightning seen at night at Prawle Point and Lyons, and thunderstorms occurring at Perpignan and Algiers.

Temperature risen in Ireland and the north of England and also in Austria, but fallen in most other parts of Europe. Morning readings, highest 80° at Palermo, 75° at Malta, 74° at Brindisi, and 72° at Sfax; above 65° in many parts of southern Europe. Lowest, 15° at Haparanda, 20° at Kuopio and St. Petersburg, and 21° at Archangel; below the freezing point over nearly the whole of Russia and Scandinavia. Daily maxima below 50° on all the Scotch coasts and below 55° at many of our western stations, but thermometer reaching 60° in the extreme south-east of England. Exceeding 70° over southern Europe generally.

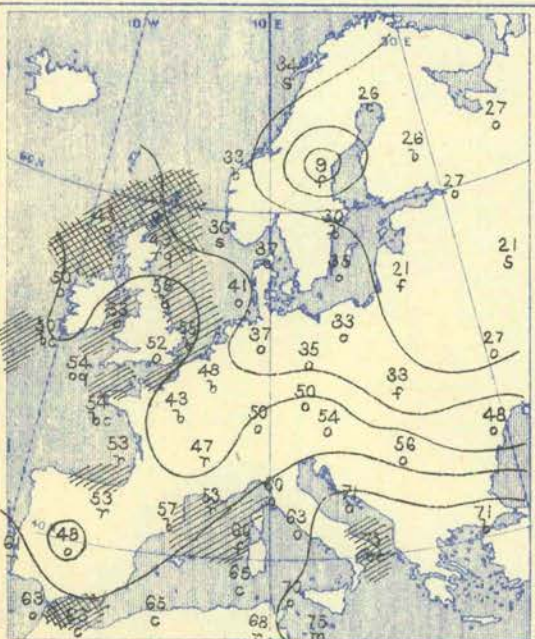
Wind blowing a gale from the Eastward in all the more northern parts of our Islands, as well as in Denmark and the south of Norway, and moderate to strong from the same quarter over northern Europe generally. Strong from the North-Westward on our south-west coasts, from the Westward in the English Channel, and from the Southward or South-Eastward in the south-east of England. Light to fresh from the Westward or South-Westward in France and Spain and from the Southward over Italy and south Germany; South-Westerly in Austria. No important change occurring during day.

Barometer highest, 30.2 ins. and upwards in an anticyclone over Finland and the northern parts of Scandinavia; 29.8 ins. and upwards over the southern parts of the Spanish Peninsula. Lowest, 28.8 ins. and less in a depression with its centre between London and Oxford; 29.3 ins. and less in another disturbance over Galicia. English depression moving slowly north-westwards during day; eastern disturbance passing on to the south of Russia, both systems partially filling up.

Wednesday, 19th October.

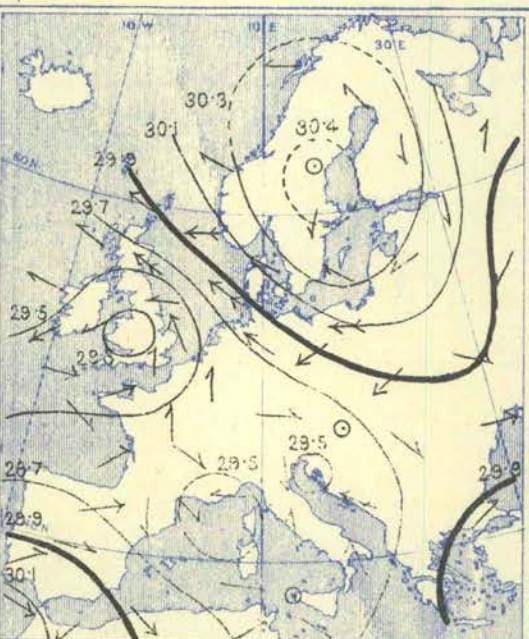
Temperature and Weather.

8 a.m.

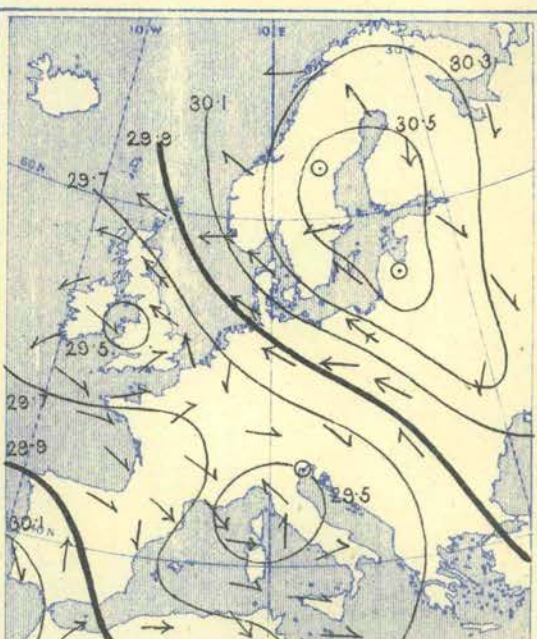


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over Europe as a whole, with rain in many parts of England and France, as well as at Lisbon and a thunderstorm at Pesaro. Rain falling also in the north-east of Scotland and snow at Bodö, Skudesnaes and Moscow. Fine in the north and east of England, as well as at many of the Swedish stations. Rain occurring later in nearly all parts of western and southern Europe—heavily at Biarritz, Vienna and Leghorn. Thunderstorm reported at Algiers.

Temperature changed rather irregularly, but fallen in most places. Morning readings highest, 75° at Brindisi and Malta, 71° at Lesina and Constantinople, and 70° at Palermo; above 60° at the Mediterranean, Adriatic and Spanish coast stations generally. Lowest, 9° at Hernösand, 21° at Riga and Moscow, and 25° at Hangö and Helsingfors; below the freezing point over nearly the whole of Sweden and Russia. Daily maxima in our Islands below 55° at many of the western and northern stations, but thermometer touching 60° at some of the English Channel stations. Exceeding 60° in the west and south of France and exceeding 70° in southern Italy, the highest reading of all being 79° at Palermo.

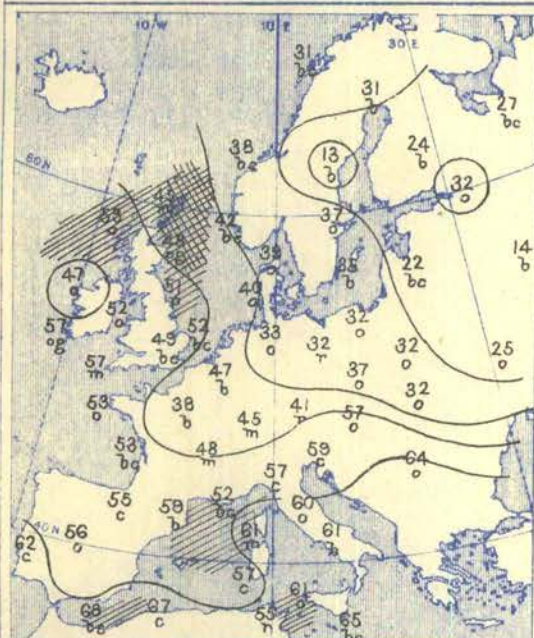
Wind strong to a gale from East or South-East over north Germany, Denmark, the North Sea, the south of Norway, and the north of Scotland, and from North-East on some parts of our north-west coasts; strong from West or South-West in the English Channel, and from South on our south-east coasts. Light to fresh from West or North-West over France and Spain; variable in Italy and Austria; light from North or North-East over the greater part of Russia and Sweden. Wind subsiding later on most parts of our coasts, but South-Easterly gale continuing in the north of Scotland.

Barometer highest, 30.4 ins. and upwards over central Sweden; 30.1 ins. and upwards in an anticyclone embracing the whole of Scandinavia, Finland and the Baltic Provinces; and also in another system over Morocco and the extreme south of Spain. Lowest, 29.3 ins. and less in a depression with its central area over Wales and central England; 29.5 ins. and less in two other disturbances lying respectively over the Gulf of Genoa and the northern part of the Adriatic. Depression over our Islands moving north-westwards later and rapidly filling up.

Thursday, 20th October.

Temperature and Weather.

8 a.m.

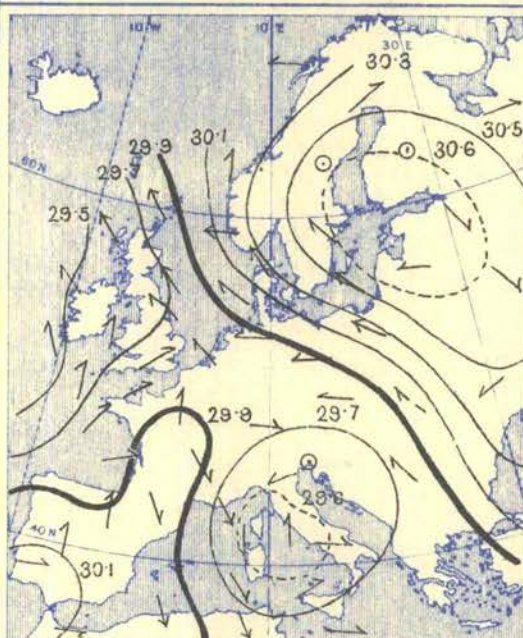


Weather in morning fine in the east and south-east of England, the Netherlands and France, and also over the greater part of Russia and Scandinavia. Cloudy or dull elsewhere, with rain in the south of Ireland, as well as in the Shetlands and many parts of Germany and Austria. Rain falling later over nearly the whole of western Europe—very heavily (3.6 ins.) at Utrecht, and snow at Wisby. Fog setting in on our own south-west coasts.

Temperature risen in Ireland, Scotland and Scandinavia, but fallen in most other countries. Morning readings highest, 68° at Nemours, 67° at Algiers, 66° at Oran, and 65° at Malta; above 60° at several of the Mediterranean and Spanish coast stations. Lowest, 13° at Hernösand, 14° at Moscow, and 22° at Helsingfors and Riga; below the freezing point over Russia and the north of Scandinavia generally. Daily maxima below 55° at several of our own northern stations, but a little above 60° on our extreme southern coasts, as well as in the northern parts of France; thermometer exceeding 65° in many parts of southern Europe, and reaching 73° at Lesina.

Barometer and Wind.

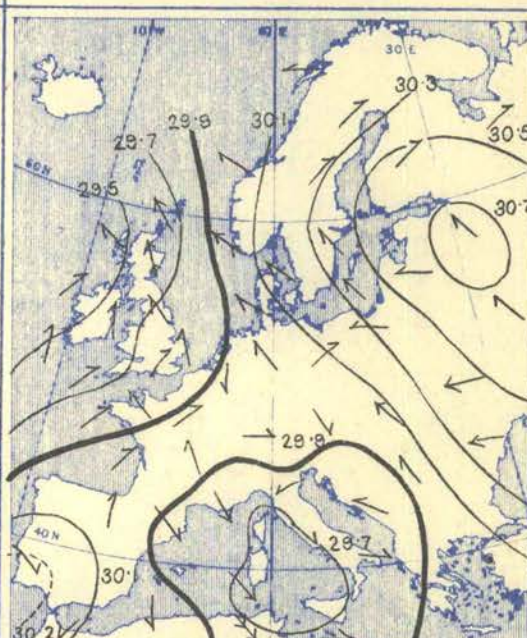
8 a.m.



Wind moderate from the Southward on the west coasts of our Islands and France, and light from the South-Westward in the south of England; strong to a gale from the Eastward over Denmark, north Germany and the south of Norway, and from the South-Eastward in the north of Scotland. Light and variable over Russia and the northern parts of Scandinavia. Calm in Austria and variable in Italy, but North-Westerly in the extreme south of France. Subsequently veering to the South-Westward on our own western coasts; no important change occurring elsewhere.

Barometer highest, 30.6 ins. and upwards over north-western Russia; 30.1 ins. and upwards in an anticyclone embracing the whole of Russia and Scandinavia, and also in another system over the southern parts of the Spanish Peninsula. Lowest, 29.5 ins. and less in a shallow depression off the west of Ireland; 29.6 ins. and less in another disturbance over Corsica and the western parts of Italy. Depression off our western coasts subsequently moving northwards.

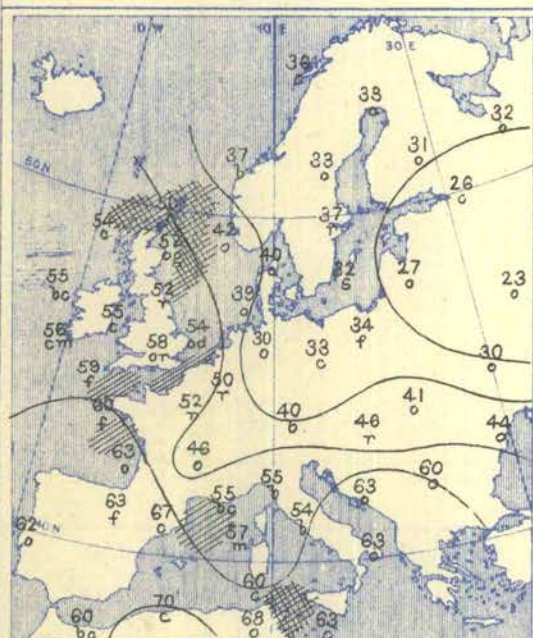
6 p.m.



Friday, 21st October.

Temperature and Weather.

8 a.m.

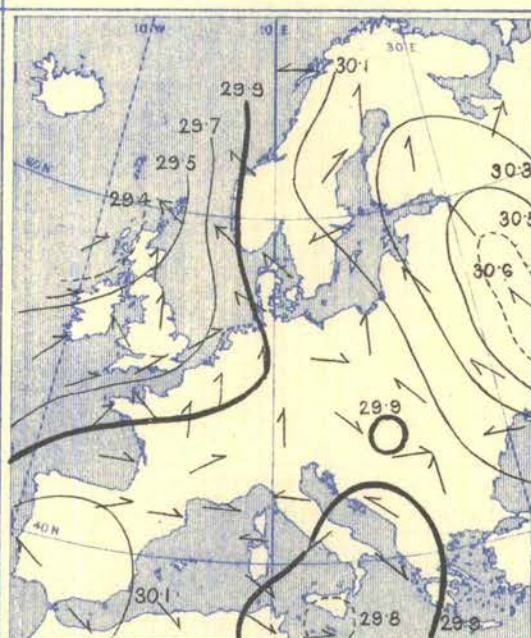


Weather in morning still fine and bright over the northern half of the Mediterranean, and dull but fair over the greater part of Germany and Russia; very changeable over north-western Europe and the British Islands, with rain in many parts of Great Britain and France, and snow at Wisby; but clear sky in several parts of Ireland. Rain falling again later over the greater part of our Islands, the Netherlands, western Germany and the north and west of France, but sky clearing a little at times over England.

Temperature rising over the United Kingdom, but still more so over France. Morning readings highest, 70° at Algiers and 67° at Barcelona; 63° at Rochefort, 62° at Jersey, 60° at Paris, and 60° to 58° over the southern counties of England. Lowest, 23° at Kharkov and Moscow, 25° at St. Petersburg, 27° at Riga, 31° at Kuopio. Rising later to between 60° and 65° over the greater part of the British Islands, and to 64° at Paris; exceeding 70° in many parts of southern Europe and reaching 77° at Barcelona. Succeeding night also warm over our Islands and their neighbourhood.

Barometer and Wind.

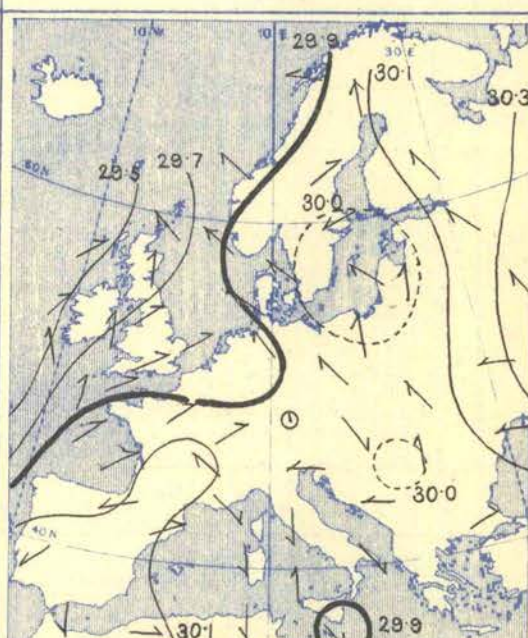
8 a.m.



Wind (1) light and very variable over the inland parts of Continental Europe and mainly anticyclonic over Russia on the one hand, and the Spanish Peninsula on the other; (2) variable in direction, but mainly cyclonic over the British Islands and north-western Europe—light to strong in force. Backing to the Southward later over the western parts of our Islands, and becoming strong to a gale in force in many places.

Barometer highest, (1) 30.6 ins. and more to 30.0 ins. in a large anticyclone over Russia, Finland and Sweden; (2) 30.1 ins. and more over the Iberian Peninsula; (3) exceeding 30.0 ins. in a broad band passing across central Europe and uniting the above-named high pressure systems. Lowest, (1) 29.36 ins. at Stornoway and below 29.7 ins. all over our Islands; (2) below 29.8 ins. over Malta and Sicily. Falling fast later on our extreme west and north-west coasts as a new depression approached those regions from the Atlantic.

6 p.m.



Saturday, 22nd October.

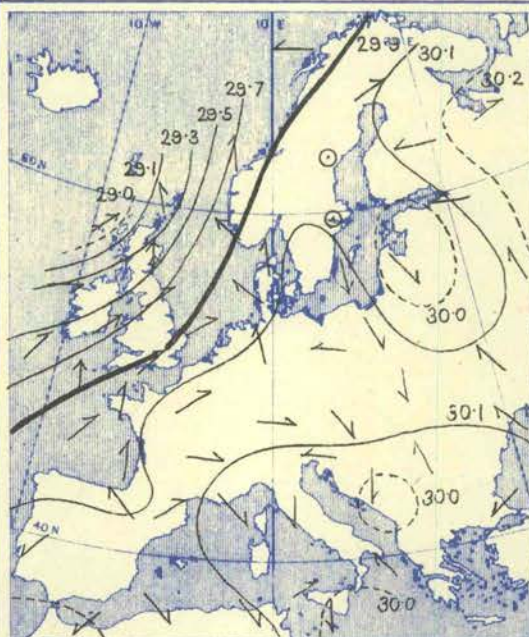
Temperature and Weather.

8 a.m.

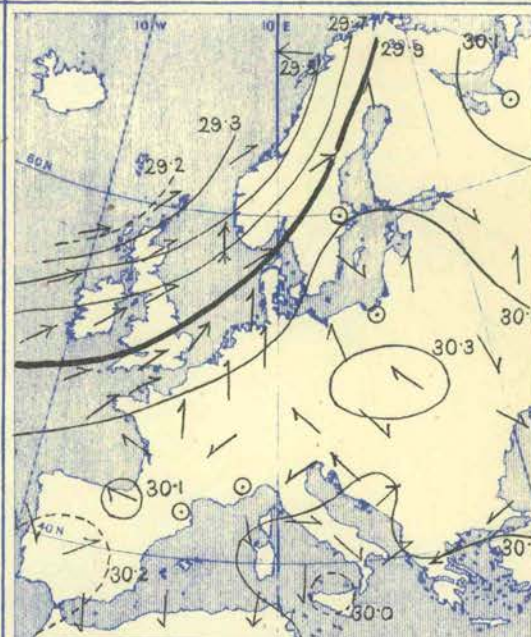


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over Great Britain and the northern and central parts of the Continent generally, with rain at some of our north-western stations, as well as at Stockholm, Brussels and Munich, and snow at Kuopio and Helsingfors; fog reported in many parts of Denmark, Germany and the Netherlands. Fine in Ireland and also over southern Europe generally. Rain falling later over nearly the whole of northern and north-western Europe, but amounts mostly slight.

Temperature risen generally, but fallen in Sweden and Finland. Morning readings highest, 70° at Barcelona, 69° at Malta and Algiers, and 67° at La Calle; above 60° in the south of England and also in many parts of Scotland. Lowest, 20° at Hernösand, 27° at Uleaborg and Moscow, and 28° at St. Petersburg; below the freezing point at many of the Russian and Swedish stations. Rising during day to 65° or slightly above it in many parts of Great Britain—even as far north as Nairn. Exceeding 70° over the Spanish Peninsula and the southern parts of France and Italy, and reaching 83° at Perpignan and 84° at Bilbao.

Wind Southerly or South-Westerly over our Islands and the neighbouring parts of the Continent, and strong to a gale in force on many parts of our western and northern coasts; moderate to strong from the South-Eastward on the eastern shores of the North Sea. Light and variable over central and southern Europe as a whole; Easterly or North-Easterly in Finland; Northerly in the south of Sweden; North-Westerly or Westerly over the Baltic provinces. Gale subsiding later on our western and northern coasts and wind veering more to the Westward; considerable increase from the Southward taking place in Scandinavia.

Barometer highest, 30.2 ins. and upwards over central France and also over the more eastern parts of Russia; 30.0 ins. and upwards over the greater part of the Continent. Lowest, 29.0 ins. and less in a deep depression with its centre a little to the north-westward of the Hebrides; gradients steep over our Islands and the North Sea. Depression subsequently moving away to the northward and barometer rising rather briskly in our Islands.

GENERAL NOTES.

Throughout the earlier part of this week barometric pressure was highest (and increasing) over northern Europe, lowest (and decreasing) off the south-west of our Islands. The depression which had brought rain to our Islands, and such large quantities to the southern half of Ireland, was moving eastwards to the mouth of the English Channel—where the barometer fell to about 28.6 ins. on Monday morning, and under its influence the wind increased to a strong gale from the Eastward over the northern parts of the Kingdom, and a very strong breeze from the South-Eastward or Southward over the south of England. Over Continental Europe as a whole the conditions were not much disturbed, but the wind was mainly Easterly over the northern and central countries, and South-Westerly in the extreme south. By Tuesday morning the centre of the swirl had moved north-eastwards to the neighbourhood of London; the Easterly gale in the north had increased in strength, and a Westerly breeze had appeared over the Channel. The centre then moved north-westwards, and began to fill up, and on Wednesday night it disappeared.

In the meantime the northern anticyclone, though increasing in intensity, had begun to move south-eastwards to central Russia, and pressure over south-western Europe also had risen. Two other depressions then approached our west and north-west coasts—one on Thursday, the other on Friday night, and the latter brought about Southerly and South-Westerly gales again in the north and west of our Islands, high temperature, and more rain in the west and north.

At the close of the week the weather was warm and humid, but improving.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 248.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	15.2	?	23	?	WESTBOURNE (Emsworth)	7.0*	-19.0	10*	-25
STRATHPEFFER SPA	17.8	-3.7	26	-4	WATERGATE (Emsworth)	0.7	?	1	?
EDINBURGH	10.0	-8.9	14	-12	BRIGHTON	5.8	-22.2	8	-30
MORPETH	6.5	?	9	?	EASTBOURNE	7.5	-20.0	10	-27
NEWCASTLE-ON-TYNE	6.6	?	9	?	VENTNOR HOSPITAL	4.6	?	6	?
OSWALDKIRK (Yorkshire)	8.8	-11.0	12	-15	SOUTHPORT	4.1	?	6	?
HOLLESLEY BAY	24.9	?	35	?	COLWYN BAY	8.2	?	12	?
SHEFFIELD	4.8	?	7	?	TENBY	8.5	-21.7	5	-28
WORKSOP	5.1	-14.7	7	-19	NEWQUAY				
THURCASTON (Leicestershire)	1.0	-19.0	1	-26	TORQUAY	8.5*	-16.8	12*	-21
PLUMSTEAD COMMON	7.7	?	11	?	GUERNSEY	17.4*	-9.4	24*	-12
MARGATE	20.1	-4.1	28	-4					

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature.					Rainfall.			Bright Sunshine.			
		(In Degrees Fahrenheit.)					Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
		Highest observed.	Lowest observed.	Averages for the week.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees).							
		Of Highest each day.	Of Lowest each day.	For whole of each day.	Above 42° F.	Below 42° F.		Inches.	Inches.				
Week ending Aug. 13th, 1898	Margate	74	51	64.5	59.8	+1.4	1	0.02	-0.57	40.6	-2.1	39	-2
" " " 20th, "	Scarborough	80	46	68.0	59.0	+2.0	1	0.47	-0.07	33.2	?	33	?
" " " 27th, "	Scarborough						2			33.8	?	34	?
" " " Sept. 3rd, "	Newquay	75	44	63.7	56.7	-0.2	3	0.58	+0.04	32.0	-12.8	33	-12
" " " " 10th, "	Scarborough	75	44	63.3	47.5	-0.2	2	0.15	-0.44	40.4	?	43	?
" " " " 10th, "	Churchstoke	80	53	68.6	62.2	+7.3	4	1.14	-0.36	50.2	+14.1	53	+15
" " " " 10th, "	Fort William	81	45	76.9	53.9	+9.0	0		-0.60	33.7	+12.5	36	+14
" " " " 10th, "	Churchstoke				64.8		0			48.5	+15.0	53	+19

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 43.]
Third Series.

WEEK ENDING SATURDAY, OCTOBER 29TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 254.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH .	58	30	53.0	41.2	46.9	3 above	Day-deg. 38	Day-deg. + 8	Day-deg. 2	Day-deg. - 8	Day-deg. 2142	Day-deg. +295	Day-deg. 397	Day-deg. -256
	1. SCOTLAND, EAST .	59	36	53.9	42.1	47.8	4 above	41	+ 8	0	- 12	2426	+198	428	-256
	2. ENGLAND, N.E. .	61	40	58.0	47.2	52.4	7 above	73	+36	0	- 6	2717*	+305	333	-229
	3. ENGLAND, EAST .	66	41	60.3	48.8	54.4	8 above	87	+42	0	- 7	3041	+255	410	-223
	4. MIDLAND COUNTIES	64	39	58.9	48.2	53.4	8 above	89	+39	0	-10	2983	+219	417	-228
5. ENGLAND SOUTH .	65	45	60.8	51.3	55.9	9 above	97	+47	0	- 5	3356*	+329	234	-255	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST .	60	35	55.0	45.5	50.1	5 above	57	+19	0	- 8	2644	+301	245	-236
	7. ENGLAND, N.W. .	62	43	56.9	49.4	53.1	6 above	78	+36	0	- 5	2881	+314	215	-255
	8. ENGLAND, S.W. .	64	40	58.5	50.8	54.5	7 above	88	+37	0	- 3	3196	+362	205	-163
	9. IRELAND, NORTH .	58	30	54.3	43.5	48.7	3 above	47	+ 5	0	- 5	2774	+307	227	-180
	10. IRELAND, SOUTH .	60	38	56.1	46.6	51.2	4 above	64	+15	0	- 5	3223	+432	165	-147
	—CHANNEL ISLANDS.	63	51	60.7	53.6	57.1	6 above	106	+35	0	0	3776	+545	55	- 93

DISTRICTS. (See p. 254.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH .	6	10ths of in. 23	10ths of in. 11 more	208	+11	46.6	+ 7.7	20	+ 3	31	+ 5	1170	+168	30	+ 5
	1. SCOTLAND, EAST .	6	9	2 more	163	+ 2	22.7	- 3.0	21	+ 3	32	+ 6	1241	+ 56	32	+ 2
	2. ENGLAND, N.E. .	5	7	0 (average)	142	- 9	17.6	- 3.7	18	- 1	27	- 1	1156*	- 7	30	0
	3. ENGLAND, EAST .	3	6	1 less	123	-24	15.6	- 5.6	19	- 4	27	- 4	1410	- 26	36	0
	4. MIDLAND COUNTIES	5	8	1 more	129	-15	16.9	- 6.1	11	- 9	17	-10	1287	+ 38	34	+ 1
5. ENGLAND, SOUTH .	4	8	0 (average)	117	-22	15.5	- 7.8	18	- 5	26	- 7	1409	- 25	38	0	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST .	6	19	7 more	181	+14	33.7	- 5.0	20	+ 3	29	+ 5	1249	+ 18	33	+ 1
	7. ENGLAND, N.W. .	6	16	7 more	156	0	27.2	- 0.9	14	- 1	21	- 2	1338	+105	35	+ 3
	8. ENGLAND, S.W. .	6	15	5 more	144	-13	26.2	- 4.9	12	-11	18	-13	1569	+ 44	41	+ 2
	9. IRELAND, NORTH .	5	7	2 less	194	+12	29.3	- 0.9	20	+ 1	29	+ 1	1209	+ 51	31	+ 1
	10. IRELAND, SOUTH .	6	9	1 less	156	- 8	30.5	- 0.6	19	- 3	28	- 3	1374	+ 57	35	+ 1
	— CHANNEL ISLANDS.	5	14	4 more	161	- 5	19.9	- 6.1	23	- 2	33	- 2	1832	+116	49	+ 3

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period was again very unsettled, with rain almost daily over the greater part of the Kingdom. In the south-east and east of England, however, very little rain was experienced till nearly the end of the week.

Temperature was much above the mean, the excess ranging from 3° or 4° in Ireland and most parts of Scotland, to as much as 8° in England E. and the Midland Counties, and to 9° in England S. The highest of the maxima were registered, as a rule, on the 23rd, and ranged from 66° in England E., and 65° in England S., to 58° in Scotland N. and Ireland N. The lowest of the minima were recorded on the 25th, and ranged from 30° in Ireland N., and Scotland N., to 45° in England S., and to 51° in the Channel Islands.

Rainfall was a little less than the mean in England E. and over Ireland, and just equal to it in England N.E. and S. In all other districts there was again an excess, that in Scotland N. and W. and in England N.W. being very large, and that in England S.W. and the Channel Islands considerable.

Bright Sunshine was somewhat above the mean over Scotland and in Ireland N., but below it in all other parts of the Kingdom. The percentage of the possible duration ranged from 33 in the Channel Islands, 32 in Scotland E., and 31 in Scotland N., to 21 in England N.W., and 17 in the Midland Counties.

Barometer and Wind.—During almost the whole of this period depressions (generally rather large, but not very deep) skirted our western and northern coasts on their passage from the Atlantic to Norway. On Saturday morning an irregularly shaped depression lay completely over the east and south of Scotland, and later on shallow secondary systems advanced over Ireland and England from the south-westward. South-Westerly to Westerly winds were very general throughout the week, and were mainly moderate or light in force, although they occasionally attained the strength of a strong breeze or moderate gale. A brief, but extremely violent whirlwind was experienced at Camberwell (South London) at 9.30 p.m. on Saturday.

* An Asterisk is inserted in all places for which the information is not usually received.
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 23rd October.

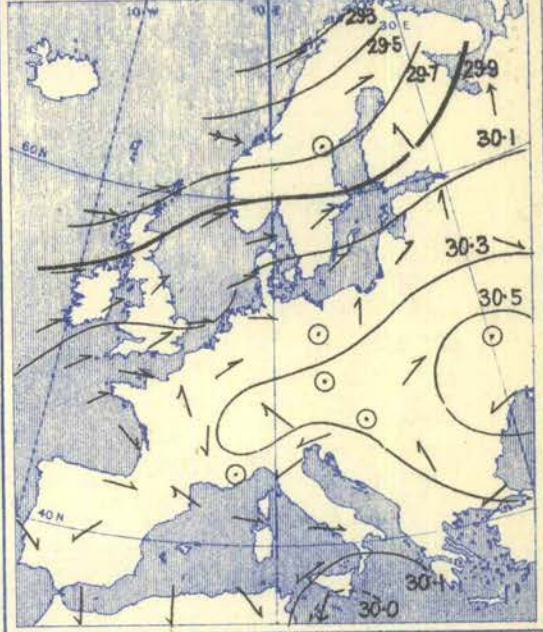
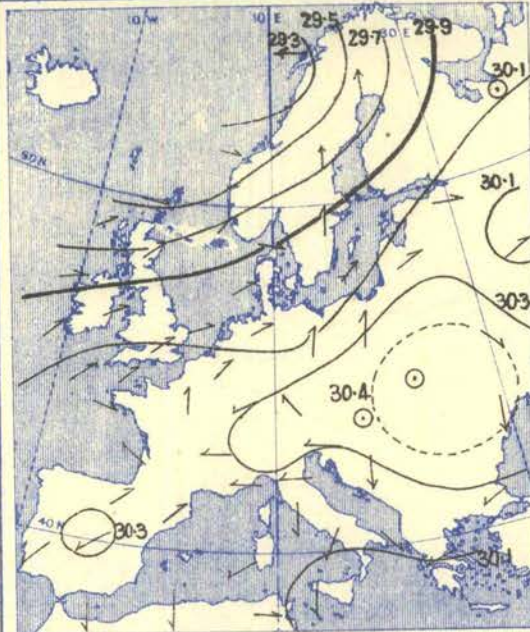
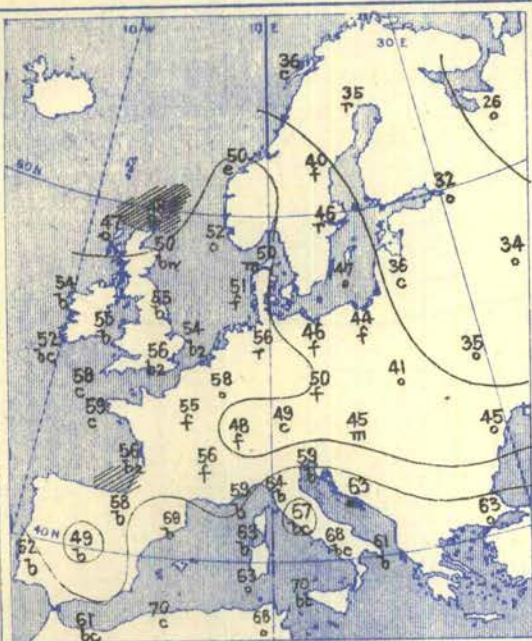
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine and bright over the Mediterranean, south-western and southern Europe, fair over the Continent as a whole, with the exception of Scandinavia and the countries bordering on the North Sea; and temporarily fine in many parts of our Islands. Rain falling later on the western and northern coasts—but amounts not considerable except in several parts of Scotland, Ireland and the north of Scandinavia; continuing fine over the southern countries.

Temperature in morning highest, 70° at Algiers and Malta, 69° at Barcelona, 68° at Naples, and above 60° at many Mediterranean and Scandinavian stations; 58° to 55° over the south of England and north of France. Lowest, (1) 26° at Archangel, 34° to 36° in many parts of Russia, 34° at Cracow; (2) 45° to 48° in the north of Scotland; (3) 48° at Belfort and Limoges. Rising later to between 60° and 65° in many parts of our Islands and France, to 70° at Rochefort, Biarritz and Perpignan, and to 72° at Nice, 73° at Rome, 75° at Palermo, 77° at Algiers and 79° at La Calle.

Wind moderate to fresh from the Northward over Italy and the Adriatic, light and anticyclonic over Spain, central and eastern Europe; South-Westerly (West to South) over the north-western countries and blowing freshly at the north-western stations; Easterly (strong) at Bodø and South-Easterly at Haparanda and Uleaborg. Blowing hard from West at Christiansund later; no decided change in our Islands.

Barometer in morning highest, 30.4 ins. and more over Hungary and the south-west of Russia, and exceeding 30.2 ins. in a large anticyclone covering the southern half of Europe. Lowest, 29.0 ins. at Bodø (Finmark) and below 29.5 ins. over the Shetland Isles and the north-western parts of Scandinavia generally; gradients steep over the northern parts of our Islands, Sweden and Norway. Rising generally elsewhere, but general distribution very little altered.

Monday, 24th October.

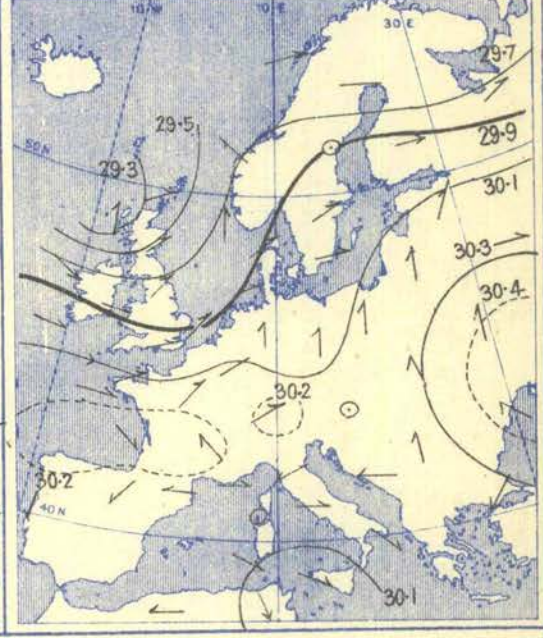
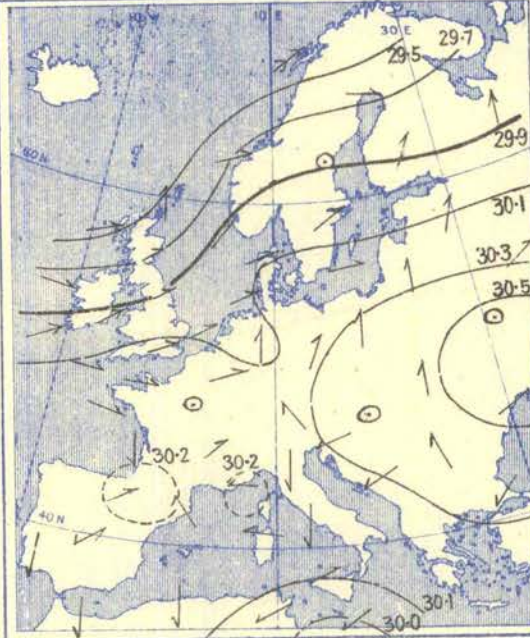
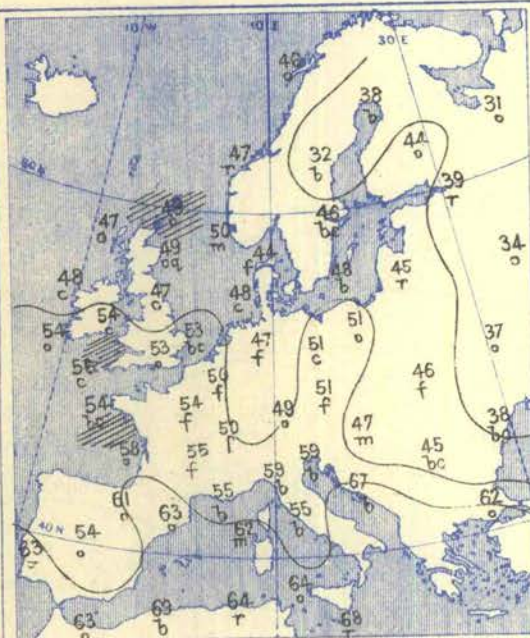
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fair generally over nearly the whole of the southern half of Europe, but foggy in many places; changeable in the north, with rain at several stations; fine over England, unsettled over Scotland and Ireland. Rain falling later throughout our Islands and in some parts of Holland, Germany and Scandinavia—heavily at Groningen and Oxö. Hail squalls reported at Malin Head.

Temperature in morning highest, 69° at Algiers, 68° at Malta, and exceeding 60° at many coast stations in southern Europe; 50° to 55° over the south of England, and 53° to 49° in the south and east of Scotland, 49° at the Helder and Copenhagen, 48° at Wisby. Lowest, 31° at Archangel, 34° at Moscow, 35° at Kharkov and at Odessa. Rising later to between 60° and 62° over the south of our Islands, and to between 66° and 69° in the south of France to 77° at Palermo and 81° at Sanghaire, but not exceeding 55° to 50° at the Scotch stations.

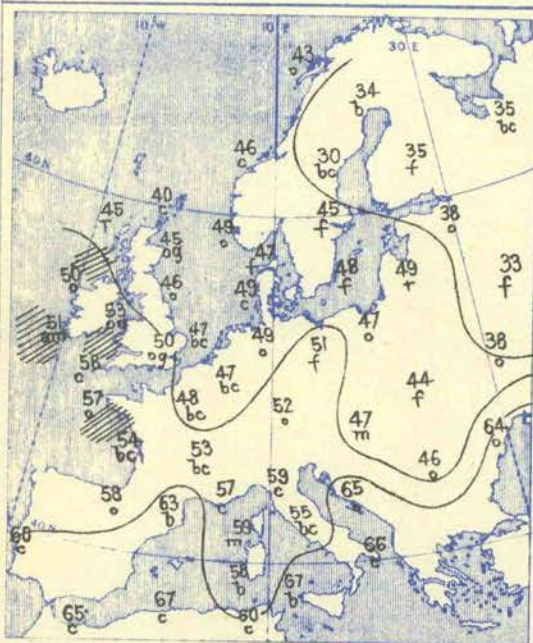
Wind (1) Westerly to Southerly over all the north-western and northern countries, blowing rather strongly at many of our western and northern stations, and a gale at Bodø; (2) light in force over all the southern and eastern countries, anticyclonic in direction. Some severe squalls from the Westward observed in the north of Ireland later, but as a whole not much change reported.

Barometer highest, 30.5 ins. and more to 30.4 ins. over the southern parts of Russia, and exceeding 30.2 ins. in a large system covering the eastern and southern countries generally. Lowest, below 29.4 ins. over Finmark, and below 29.5 ins. over the Hebrides and north-west of Scotland. Gradients somewhat steep over the British Islands and the northern half of Scandinavia. Changing fitfully later over Scotland and the North Sea, not much alteration in the south.

Tuesday, 25th October.

Temperature and Weather.

8 a.m.

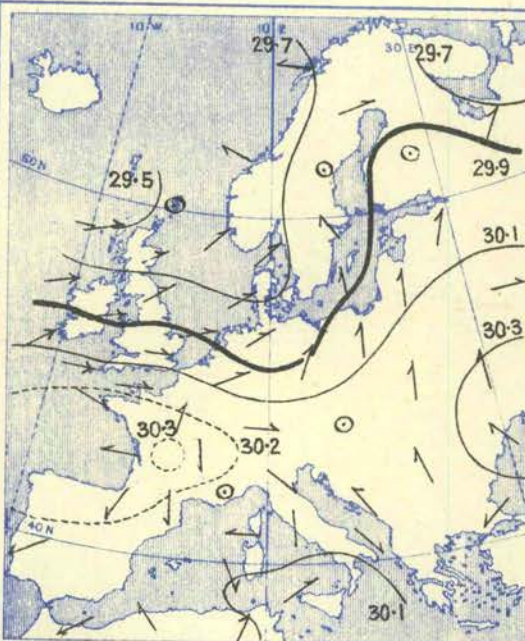


Weather in morning cloudy or dull over the United Kingdom, with rain on our north-west coasts. Dull over the northern, central, and eastern parts of the Continent generally, with fog in many places, and rain over the Baltic Provinces, as well as at Münster; fine in the Gulf of Bothnia. Fine over France, Spain, Italy, and the Mediterranean. Rain falling later in most parts of north-western and central Europe; amounts slight as a rule, but heavy (1.0 ins.) at Stornoway. Aurora seen in the extreme north of Scotland.

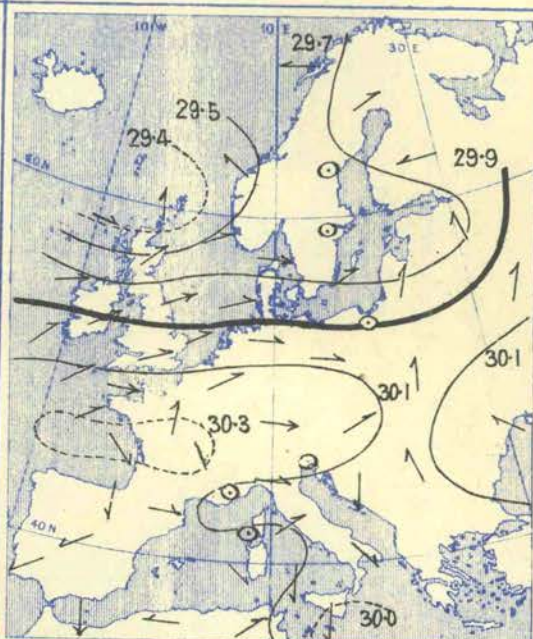
Temperature risen in Ireland, as well as in many parts of Denmark and southern Europe; fallen elsewhere. Morning readings highest, 67° at Malta and Algiers, 66° at Brindisi, and 65° at Lesina; above 60° at most of the Mediterranean and Adriatic stations, and above 55° on our own south-west coasts. Lowest, 30° at Hernösand, 32° at Kharkov, and 33° at Moscow; below 40° in most parts of Sweden and Russia, and below 45° in the north of Scotland. Rising during day to between 55° and 60° over the United Kingdom generally, and to 62° at Jersey; exceeding 65° in the south of France, and reaching 70° at Perpignan, 77° at Cagliari, 79° at Sanguinaire, and 81° at Cape Béarn.

Barometer and Wind.

8 a.m.



6 p.m.



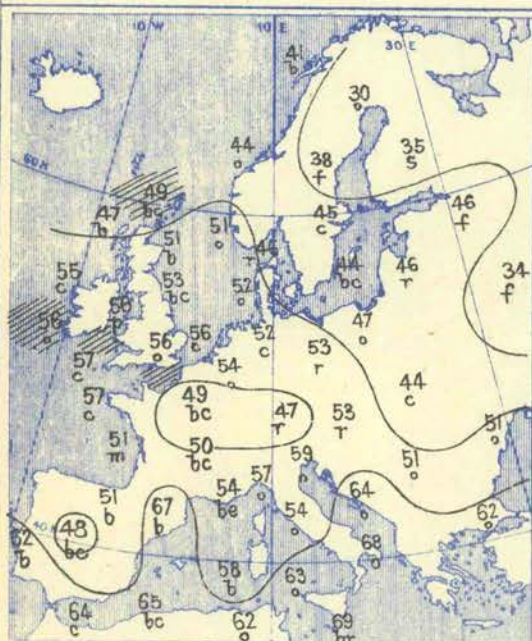
Wind light to fresh from the South-Westward over our Islands, the North Sea, Denmark, and Germany; light from the Southward over the Baltic, Sweden, and Finland, and from the Eastward in the west of Norway; calm in Austria; variable in Italy. Light from the Eastward or North-Eastward over the Spanish Peninsula and the south-west of France. Subsequently increasing to a strong breeze or moderate gale from the South-Westward or Westward in the north of Ireland; no important change occurring elsewhere.

Barometer highest, 30.4 ins. and upwards in the south of Russia; 30.3 ins. and upwards over central France; 30.1 ins. and upwards in an anticyclone covering all the more southern parts of Europe. Lowest, 29.5 ins. and less in a depression off the north-west of Scotland. Depression subsequently moving eastwards; barometer falling in most parts of north-western Europe.

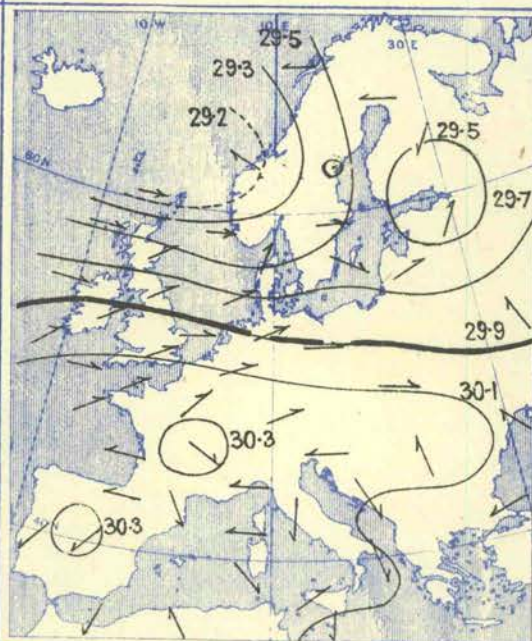
Wednesday, 26th October.

Temperature and Weather.

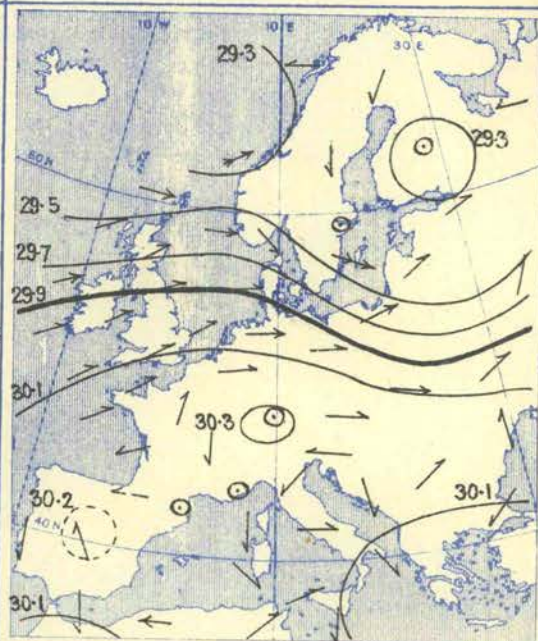
8 a.m.



8 a.m.



6 p.m.



Weather in morning fair over the extreme southern and western parts of Continental Europe and over the eastern part of England, very changeable elsewhere, with showers in many places, snow at Kuopio. Rain falling later over Scandinavia and the northern and western parts of the British Islands, in northern Russia and in north Germany, but the amount large at Stornoway and Archangel only; amount of cloud considerable over England.

Temperature risen somewhat over Great Britain. Morning readings highest, 69° at Malta, 68° at Brindisi, 67° at Barcelona, and above 60° at many stations in southern Europe; 55° to 59° over the southern parts of England, and exceeding 50° in the south and east of Scotland. Lowest, (1) 30° at Haparanda, 34° at Moscow, 35° at Kuopio, and 38° at Hernösand; 43° at Karlstad, 44° at Wisby and Christiansund; (2) 40° at Odessa, 43° at Cracow, and 44° at Lemberg. Rising later to 60° and more over the eastern and southern counties of England, to 62° at Paris, 68° at Nice, and 70° at Perpignan, to 77° at Cagliari and 81° at Sanguinaire.

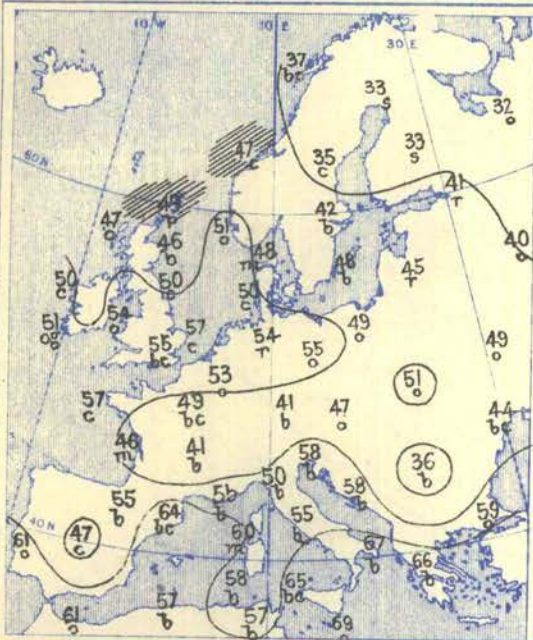
Wind very light and variable (mainly anticyclonic) over the southern countries of Europe and the Mediterranean, Westward to South-Westerly over the more northern regions and moderate to fresh in force, but an Easterly breeze continuing to blow in the north-west of Norway, and extending to some parts of Sweden and Finland. No decided change in our Islands later.

Barometer in morning highest, 30.3 ins. and more to 30.0 ins. over the southern parts of Europe and the southern counties of England. Lowest, below 29.2 ins. to 29.3 ins. over the Shetland Islands and west of Norway, and below 29.5 ins. over the Gulf of Finland—the gradients being somewhat steep over the northern countries. Rising decidedly at the northern stations later, but inclined to fall a little in the south-west.

Thursday, 27th October.

Temperature and Weather.

8 a.m.

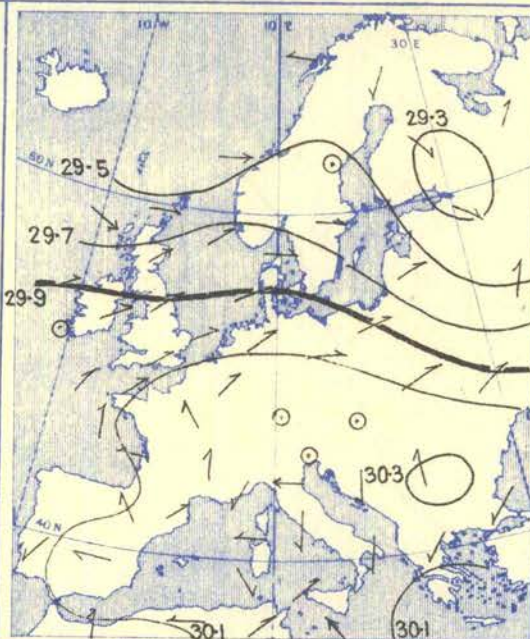


Weather in morning fair or fine over the greater part of western and southern Europe, but dull at many of our own western stations, with rain at Roche's Point and Pembroke; rain falling also at Christiansund, and passing showers at Sumburgh Head. Fine in the south of Sweden; dull in Russia and Germany, with rain in several places and snow at Uleaborg and Kuopio. Slight rain falling later in many parts of England, Ireland and north Germany, and larger quantities in the Shetlands and Hebrides, and also at Christiansund.

Temperature fallen in most parts of western and southern Europe and also Sweden and northern Russia. Morning readings highest, 69° at Malta, 67° at Brindisi and Algiers, and 66° at Bilbao and Patras; above 60° at several of the Mediterranean and Spanish coast stations, and very little below it over the English Channel. Lowest, (1) 32° at Archangel and Haparanda, and 33° at Uleaborg and Kuopio; (2) 39° at Le Mans and 41° at Lyons and Munich; (3) 45° at Nairn and Donaghadee. Rising later to 60° or slightly above it in the east and south of England, exceeding 65° over the southern parts of France, and reaching 73° at Biarritz, 77° at Cagliari and 83° at Sanguinaire.

Barometer and Wind.

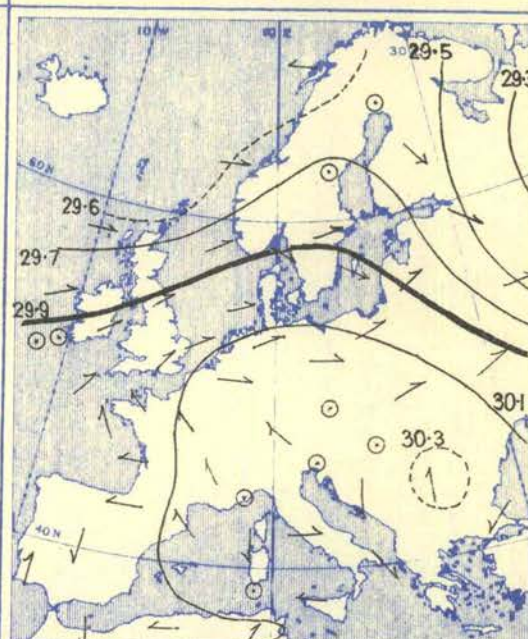
8 a.m.



Wind light to moderate from the South-Westward or Westward over north-western Europe generally, but South-Easterly at the mouth of the St. George's Channel, as well as in the west of France. Northerly or North-Westerly in Finland; Westerly over the Baltic; South-Westerly in the central and southern parts of Russia. Calm in Austria, Northerly in Italy, North-Easterly in Greece and also over the Spanish Peninsula. Shifting later to the South-Westward at the mouth of the St. George's Channel; no important change occurring elsewhere.

Barometer highest, 30.34 ins. at Hermanstadt; 30.1 ins. and upwards in an anticyclone covering the whole of central and southern Europe. Lowest, 29.3 ins. and less in a well-marked depression over Finland; 29.4 ins. and less in another disturbance off the west of Norway; 29.9 ins. and less (apparently) in a small and shallow system lying off our extreme south-west coasts. No important change occurring during day.

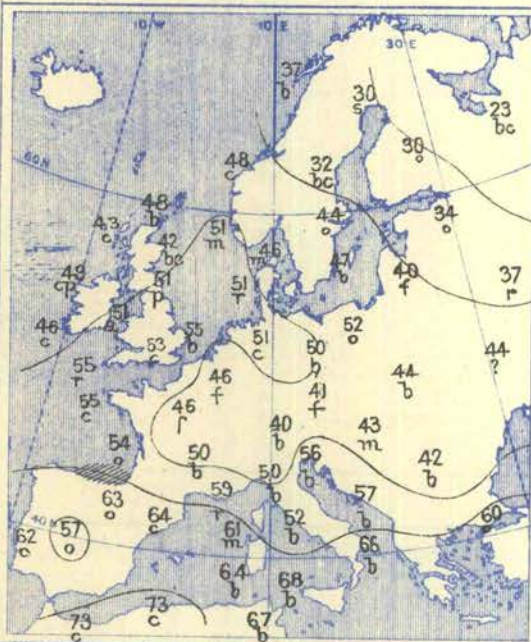
6 p.m.



Friday, 28th October.

Temperature and Weather.

8 a.m.

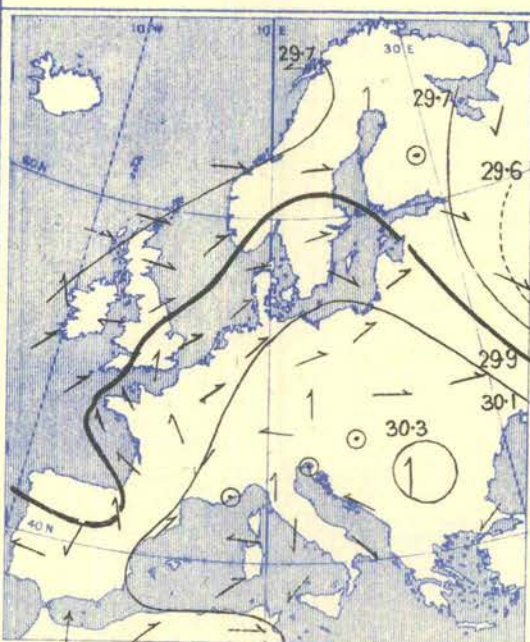


Weather in morning cloudy over western Europe generally, with passing showers at some of our own western stations, and rain at Fanø, as well as at Nice and Toulon. Fine in the north and east of Scotland, and also over Italy and the Mediterranean. Foggy in many parts of northern and central Europe, with rain at Moscow and snow at Haparanda. Rain falling later in the west and north of our Islands generally—heavily in Wales and the south-west of England. Thunder and lightning occurring at Scilly.

Temperature fallen in most countries, risen over France and the Spanish Peninsula. Morning readings highest, 73° at Nemours and Algiers, 68° at Palermo and Oran, and 67° at Sfax; above 60° at most of the Mediterranean and Spanish coast stations. Lowest, (1) 23° at Archangel, and 30° at Haparanda, Uleaborg, and Kuopio; (2) 40° at Nairn, and 42° at Aberdeen; (3) 40° at Munich, and 41° at Prague. Daily maxima below 55° at most of our own inland parts of England; but thermometer rising to 60° or slightly above it over the inland parts of England; exceeding 70° in the south of France, and reaching 78° at Biarritz, 77° at Cagliari and Palermo, 82° at Oran and Algiers.

Barometer and Wind.

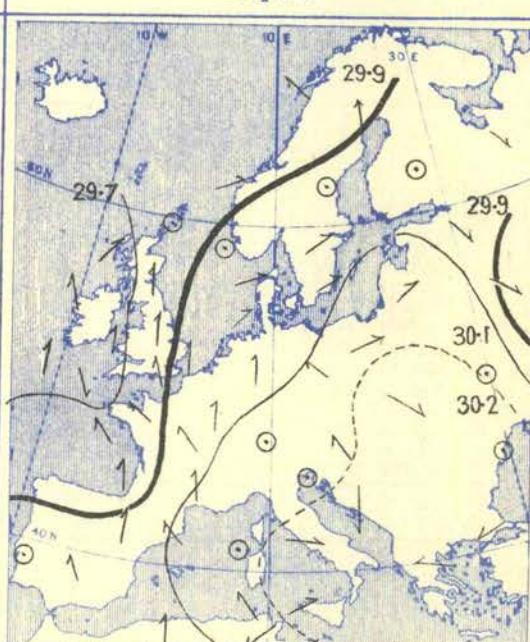
8 a.m.



Wind light to moderate from the South-Eastward in France and from the Southward over Ireland, England and the Netherlands; light from the Westward in the north of Scotland; Westerly or South-Westerly over the greater part of Scandinavia, Denmark and north Germany; North-Westerly in Russia. Calm in Austria and also in the extreme south of France; variable in Italy; Easterly or North-Easterly over the Spanish Peninsula. Subsequently backing to the South-Eastward in the south of England; no important change occurring elsewhere.

Barometer highest, 30.35 ins. at Hermanstadt; 30.1 ins. and upwards in an anticyclone embracing the greater part of central and southern Europe. Lowest, 29.6 ins. and less in a depression over central Russia; 29.7 ins. and less in a large shallow area lying to the northward and north-westward of our Islands. Small depression appearing later near the mouth of the English Channel; barometer falling over western Europe generally.

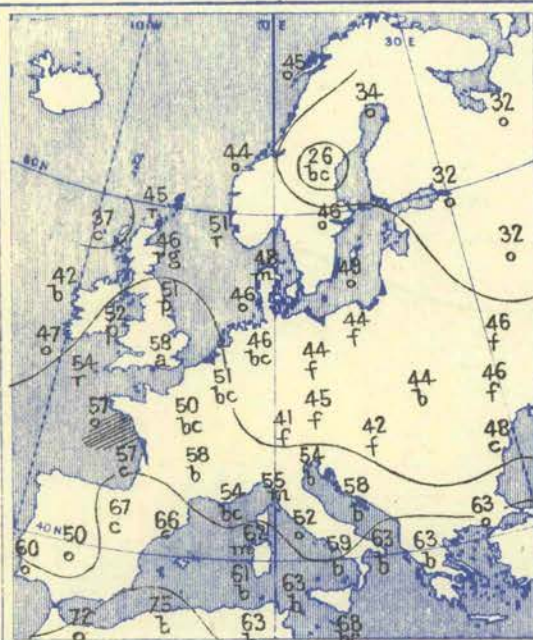
6 p.m.



Saturday, 29th October.

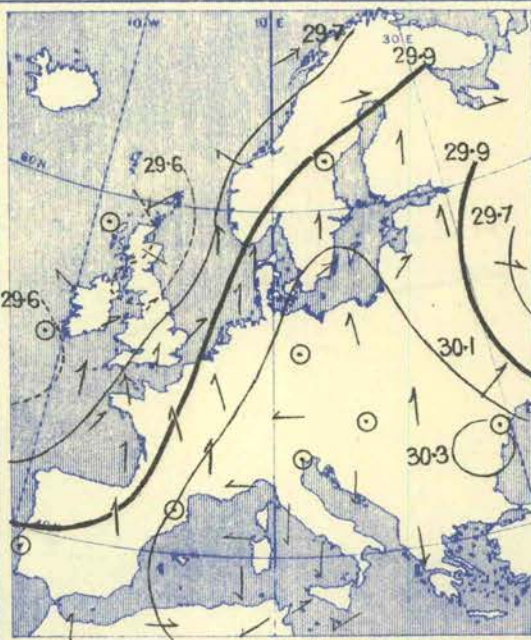
Temperature and Weather.

8 a.m.

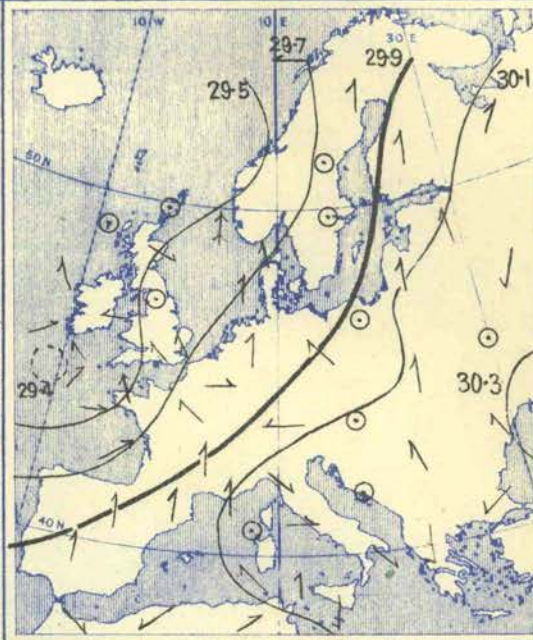


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over many parts of France, Germany, south-eastern Europe, and the Mediterranean, and temporarily fair over the northern half of Ireland; dull, damp and unsettled over England, foggy at Leith. Much rain later over France, Ireland, and England, thunder and lightning over our south-eastern counties.

Temperature risen over France and Great Britain. Morning readings highest, 75° at Algiers, 68° at Malta, and exceeding 60° over the western and southern parts of the Mediterranean generally, 50° at Lorient, Jersey and Dungeness, 57° at Oxford, 53° at York. Lowest, (1) 26° at Hernösand, 32° at Archangel, Kuopio, St. Petersburg and Moscow, 44° at Riga; (2) 37° at Stornoway, 38° at Parsonstown. Rising later to 60° and more in Scotland, to 60° or 61° over our southern counties, to 68° at Paris and 72° in the south-west of France.

Wind Southerly over France, England, the North Sea, and the greater parts of Denmark and Scandinavia. Very light and variable elsewhere—especially over Ireland and Scotland. Increasing greatly in strength from various directions later, both over France and our Islands, and blowing a moderate to fresh gale in places. [A local severe whirlwind experienced in some parts of Camberwell, South London.]

Barometer highest, 30.3 ins. in the south of Russia, and exceeding 30.0 ins. all over the Mediterranean, central Europe, the Baltic and north of Russia. Lowest, below 29.7 ins. in a large depression over central Russia, and below 29.6 ins. over the south of Scotland and off the south-west of Ireland. Distribution very irregular over the British Isles. Falling fast later all over the United Kingdom—especially in the south-west as a small but well-marked depression approached Pembroke from the south-westward rapidly.

GENERAL NOTES.

During nearly the whole of this week a large anticyclone existed over the central and southern parts of Europe, the highest pressures being found at first over the south of Russia, and afterwards further to the westward. The winds in those regions were therefore light and variable, with a good deal of cloud and fog over central Europe, but with fine weather in most of the southern countries.

In our Islands and all the more northern parts of the Continent the conditions were affected by a series of large, though somewhat shallow, depressions, the centres of which skirted the north of Scotland, and afterwards moved away to the north-eastward. The prevailing winds were therefore South-Westerly or Westerly, and at some of the more northern stations they occasionally blew with considerable strength, though seldom with the force of a gale. The weather was generally mild and changeable, with frequent rain in the west and north of our Islands, and with occasional showers in most other regions, the latter being, however, in some cases too slight for measurement. Between the 25th and 26th a well-marked secondary disturbance was developed over Finland, the system afterwards moving east-south-eastwards, and occasioning snow in several parts of Russia.

Towards the close of the week the southern anticyclone began to give way on its western side, while the Atlantic depressions appeared further south, and spread more immediately over our Islands. The winds over western Europe consequently backed to the Southward, and the rainfall became general, a considerable quantity being reported on the 28th over Wales and the south-west of England, and on the 29th in nearly all parts of Ireland and England. On the evening of the latter day a strong Southerly gale sprang up in the Straits of Dover, while a violent squall of a tornado-like character passed over Camberwell.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 254.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	25.3	?	40	?	WESTBOURNE (Emsworth)	21.8*	- 1.2	32*	0
STRATHPEFFER SPA	25.3	+ 6.6	40	+11	WATERGATE (Emsworth)	16.8	?	24	?
EDINBURGH	21.5	+ 3.3	33	+ 8	BRIGHTON	16.7	- 9.1	24	-13
MORPETH	19.1	?	29	?	EASTBOURNE	14.3	- 9.7	21	-12
NEWCASTLE-ON-TYNE	17.4	?	26	?	VENTNOR HOSPITAL	20.4	?	30	?
OSWALDKIRK (Yorkshire)	15.9	- 1.2	23	- 2	SOUTHPORT	12.5	?	18	?
HOLLESLEY BAY	22.2	?	32	?	COLWYN BAY	16.8	?	25	?
SHEFFIELD	11.0	?	16	?	TENBY	4.4	-18.4	6	-25
WORKSOP	12.3	- 4.6	19	- 5	NEWQUAY	16.2	- 7.3	23	-11
THURCASTON (Leicestershire)	8.7	- 9.8	13	-13	TORQUAY	17.5*	- 5.0	25*	- 6
PLUMSTEAD COMMON	20.9	?	30	?	GUERNSEY	25.8*	+ 2.1	37*	+ 4
MARGATE	21.4	- 1.0	31	0					

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.)								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the week.			Differ- ence of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees).		Number of Days with Rain.	Rainfall in the Week.	Differ- ence from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Pos- sible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
Week ending Sept. 10th, 1898	Newquay	—	—	—	—	—	—	—	—	—	Inches.	Inches.	47.5	+ 7.3	52	+ 9
" " " 17th, "	Scarborough	82	50	70.9	55.3	62.7	+ 7.7	145	0	0	—	-0.60	41.2	?	47	?
" " " " "	Hereford	82	45	72.9	50.9	61.4	+ 5.7	136	0	1	0.07	-0.53	—	—	—	—
" " " " "	Blackpool	77	52	69.0	57.2	61.8	+ 6.3	139	0	2	0.54	-0.31	31.6	+ 1.8	33	0
" " " " "	Newquay	—	—	—	—	—	—	—	—	—	—	—	45.1	+ 7.3	51	+ 9
" " " 24th, "	Hillington	—	—	—	—	—	—	—	—	—	—	—	28.0	- 2.3	33	- 3
" " " Oct. 1st, "	Oswaldkirk	—	—	—	—	—	—	—	—	—	—	—	24.0	- 2.0	—	- 1
" " " 8th, "	Killarney	67	46	63.9	53.5	58.5	+ 0.7	116	0	4	1.92	?	—	—	—	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.VOL. XV. No. 44.]
Third Series.

WEEK ENDING SATURDAY, NOVEMBER 5TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 200.)		Temperature of the Air.													
		Observed during the Week.					Accumulated.								
		Highest.	Lowest.	Averages of			Above or below the Mean for the Week.	For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	56	30	49.0	39.0	44.0	1 above	Day-deg. 27	Day-deg. + 1	Day-deg. 8	Day-deg. - 4	Day-deg. 2169	Day-deg. +296	Day-deg. 405	Day-deg. -260
	1. SCOTLAND, EAST	60	33	51.0	39.5	45.2	3 above	33	+ 5	7	- 8	2459	+203	435	-264
	2. ENGLAND, N.E.	61	36	54.2	43.6	48.9	5 above	48	+16	0	- 8	2765	+321	333	-237
	3. ENGLAND, EAST	63	30	56.3	41.7	49.0	4 above	50	+11	1	- 9	3091	+266	411	-232
	4. MIDLAND COUNTIES	61	29	55.0	42.0	48.5	5 above	46	+10	0	-12	3029	+229	417	-249
	5. ENGLAND SOUTH	61	32	57.1	44.1	50.6	4 above	60	+15	0	- 6	3416	+344	234	-261
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	58	31	52.1	43.4	47.8	3 above	41	+ 7	0	-10	2685	+308	245	-246
	7. ENGLAND, N.W.	63	38	54.6	45.7	50.2	5 above	57	+20	0	- 6	2938	+334	215	-261
	8. ENGLAND, S.W.	61	28	55.6	44.7	50.2	4 above	57	+11	0	- 3	3253	+373	205	-166
	9. IRELAND, NORTH	59	32	52.2	41.4	46.9	2 above	37	0	2	- 5	2811	+307	229	-185
	10. IRELAND, SOUTH	66	31	55.0	43.4	49.2	3 above	50	+ 5	0	- 6	3273	+437	165	-153
	-CHANNEL ISLANDS-	61	45	59.0	48.7	53.9	4 above	83	+17	0	0	3859	+562	55	- 93

DISTRICTS. (See p. 200.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	10ths of in. 42	10ths of in. 30 more	215	+13	Ins. 50.8	+10.7	9	- 8	14	-12	1179	+161	29	+ 4
	1. SCOTLAND, EAST	6	16	9 more	169	+ 3	24.3	- 2.1	14	- 2	22	- 2	1255	+ 54	31	+ 1
	2. ENGLAND, N.E.	5	3	3 less	147	- 8	17.9	- 4.0	18	+ 2	23	+ 3	1174	- 4	30	0
	3. ENGLAND, EAST	5	4	2 less	128	-24	16.0	- 5.8	31	+10	47	+19	1441	- 15	36	0
	4. MIDLAND COUNTIES	5	5	2 less	134	-14	17.4	- 6.3	25	+ 8	39	+14	1312	+ 46	34	+ 1
	5. ENGLAND, SOUTH	5	7	1 less	122	-22	16.2	- 7.9	23	+ 9	43	+14	1437	- 16	38	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	35	25 more	187	+14	37.2	- 2.7	17	+ 1	27	+ 3	1266	+ 20	32	0
	7. ENGLAND, N.W.	7	18	8 more	163	+ 2	29.0	0.0	18	+ 2	28	+ 4	1356	+107	35	+ 3
	8. ENGLAND, S.W.	6	10	0 (average)	150	-13	27.2	- 5.0	29	+ 8	43	+14	1593	+ 52	41	+ 2
	9. IRELAND, NORTH	7	14	4 more	201	+13	30.7	- 0.4	18	0	29	0	1227	+ 52	31	+ 1
	10. IRELAND, SOUTH	6	9	1 less	162	- 7	31.4	- 0.7	24	+ 4	37	+ 7	1398	+ 63	35	+ 1
	- CHANNEL ISLANDS-	6	9	0 (average)	167	- 4	20.8	- 6.2	25	0	38	0	1857	+116	49	+ 3

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period varied greatly in different parts of the Kingdom. Rain fell frequently in nearly all districts, but, while in the east the amounts were relatively small and several fine bright intervals prevailed, the fall in the west and north-west of Scotland was unusually heavy and persistent, and heavy in the east of Scotland, the north-west of England, and north of Ireland also.

Temperature was again above the mean, the excess ranging from 1° in Scotland N. and 2° in Ireland N. to 4° or 5° over England. The highest of the maxima were recorded either on November 2nd or 3rd, and ranged from 66° in Ireland S., and 63° in England E. and N.W., to 59° in Ireland N., 58° in Scotland W., and to 56° in Scotland N. The lowest of the minima were mostly recorded on Nov. 1st, and ranged from 28° in England S.W., and 29° in the Midland counties, to 36° in England N.E., and to 45° in the Channel Islands.

Rainfall was rather less than the mean over the eastern half of England and in Ireland S., just equal to the normal in England S. and the Channel Islands, but in the northern and north-western districts the fall was extremely heavy; that in Scotland N. exceeding the mean by 3 ins.,

and that in Scotland W. by 2.3 ins. In Scotland E., England N.W., and Ireland N., also the excess was large. The greatest aggregate falls in the week at any individual station were 6.09 ins. at Fort William, 5.88 ins. at Stornoway, 5.75 ins. at Glencarron, and 5.41 ins. at Lauder.

Bright Sunshine was deficient in Scotland N. and E., and just equal to the mean in Ireland N. and the Channel Islands; in all other parts of the Kingdom there was an excess, that in most parts of England being very considerable. The percentage of the possible duration ranged from 47 in England E., and 43 in England S. and S.W., to 29 in Ireland N., 22 in Scotland E., and 14 in Scotland N.

Barometer and Wind.—During the whole of this period depressions moved north-eastwards over, or to the northward of our north-western and northern coasts, causing South-Westerly winds to prevail over the whole Kingdom. The depression whose centre lay to the northward of Scotland on the morning of the 2nd was deep and very large, and occasioned fresh to strong gales in all parts of our Islands. At the end of the period the barometer was rising generally, and the wind was veering to the Westward.

II.—DATA from which the SUMMARY on page 259 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
0. SCOTLAND, N.	Sumburgh Head	52	39	49.3	42.1	45.7	+ 2.3	26	0	7	2.68	+ 1.66	*	*	*
	Stornoway	52	35	48.6	38.4	43.5	+ 0.4	26	10	7	5.88	+ 4.70	11.3	- 4.5	19
	Wick	53	32	50.7	38.0	44.4	+ 1.5	34	11	7	2.05	+ 1.27	*	*	*
	Lairg	52	30	47.7	36.2	42.0	+ 0.4	16	16	7	3.20	+ 2.34	*	*	*
	Glencarron	54	34	47.2	38.6	42.9	+ 0.7	21	10	7	5.75	+ 3.56	*	*	*
	Fort Augustus	56	33	49.2	38.5	43.9	+ 0.2	28	10	7	4.04	+ 3.09	3.4	- 6.0	5
1. SCOTLAND, E.	Fort William	56	36	50.2	41.2	45.7	+ 1.7	29	2	7	6.09	+ 4.37	1.6	- 11.9	3
	Nairn	58	34	50.1	37.3	43.7	+ 1.2	32	13	7	1.93	+ 1.44	*	*	*
	Aberdeen	60	35	51.6	40.0	45.8	+ 2.6	35	6	4	0.73	+ 0.07	19.7	+ 0.3	32
	Braemar	55	33	47.0	37.3	42.2	+ 2.3	21	13	7	2.02	+ 1.07	7.3†	- 3.2†	12†
	Ochertyre	56	35	51.0	39.1	45.1	+ 2.3	34	8	6	2.84	+ 1.84	*	*	*
	Leith	60	39	53.4	43.3	48.4	+ 4.0	45	0	5	1.18	+ 0.78	*	*	*
2. ENGLAND, N.E.	Marchmont	58	34	52.6	39.7	46.2	+ 4.0	39	6	6	0.97	+ 0.22	12.3	- 4.5	20
	Alnwick Castle	61	39	55.3	43.3	49.3	+ 5.5	51	0	5	0.20	- 0.48	*	*	*
	Durham	60	36	54.9	40.5	47.7	+ 4.7	51	0	5	0.11	- 0.57	20.4	+ 3.6	32
	Shields	61	39	54.3	44.3	49.3	+ 4.6	51	0	4	0.16	- 0.41	*	*	*
	Scarborough	60	38	53.0	43.0	48.0	+ 3.0	42	0	6	0.30	- 0.33	17.6	?	27
	York	61	38	53.9	44.7	49.3	+ 5.3	51	0	7	0.77	+ 0.18	15.4	- 0.4	24
3. ENGLAND, E.	Spurn Head	60	42	53.9	46.0	50.0	+ 4.1	56	0	4	0.37	- 0.18	*	*	*
	Hillington	63	30	55.7	40.7	48.2	+ 4.0	49	4	7	0.75	+ 0.15	29.0	+ 11.2	45
	Yarmouth	60	36	55.1	43.1	49.1	+ 3.3	50	0	5	0.25	- 0.45	*	*	*
	Geldeston	61	35	56.7	41.9	49.3	+ 4.1	52	0	4	0.31	- 0.33	30.2	+ 10.2	46
	Cambridge	61	33	58.1	40.7	49.4	+ 4.4	57	4	4	0.30	- 0.22	30.8	+ 10.8	47
	Rothamsted	60	31	55.9	42.1	49.0	+ 5.1	49	0	5	0.59	- 0.10	31.6	+ 10.6	49
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	61	34	54.0	41.7	47.9	+ 4.2	43	1	6	0.30	- 0.25	*	*	*
	Loughborough	61	32	56.7	42.7	49.7	+ 4.9	54	0	4	0.72	+ 0.12	*	*	*
	Stamford (Duddington)	61	34	55.0	42.9	49.0	+ 5.0	49	0	5	0.29	- 0.31	*	*	*
	Cheadle	58	36	53.8	41.7	47.8	+ 4.6	42	1	6	0.49	- 0.31	*	*	*
	Shirley (near Solihull)	59	36	54.2	43.1	48.7	+ 5.2	47	0	7	0.55	?	*	*	*
	Churchstoke	59	36	54.2	43.1	48.7	+ 5.2	47	0	7	0.55	?	*	*	*
5. ENGLAND, S.	Hereford	59	29	54.9	38.9	46.9	+ 3.0	47	9	5	0.71	- 0.02	23.8	+ 3.8	37
	Cirencester	61	35	56.1	43.0	49.6	+ 4.5	53	0	2	0.24	- 0.30	*	*	*
	Oxford	61	35	56.1	43.0	49.6	+ 4.5	53	0	2	0.24	- 0.30	*	*	*
	London	61	35	57.9	42.7	50.3	+ 4.3	58	0	3	0.78	+ 0.16	22.1†	+ 7.1†	34†
	North Foreland	60	39	56.0	44.7	50.4	+ 4.7	59	0	4	0.43	?	*	*	*
	Cranley	59	32	57.2	41.6	49.4	+ 4.4	53	1	4	0.50	?	*	*	*
6. SCOTLAND, W.	Dungeness	59	35	58.1	43.9	51.0	+ 3.2	63	0	5	0.65	- 0.13	*	*	*
	Hastings (St. Leonards)	59	41	56.8	46.0	51.4	+ 4.4	66	0	6	0.97	+ 0.09	30.9	+ 8.9	47
	Southampton	60	34	58.4	41.6	50.0	+ 3.1	58	1	5	1.05	+ 0.26	28.8	+ 7.3	44
	Hurst Castle	59	39	57.9	47.4	52.7	+ 4.8	75	0	5	0.70	- 0.09	*	*	*
	Shaftesbury	57	43	54.7	45.1	49.9	+ 5.9	55	0	5	0.65	- 0.18	*	*	*
	Laudale (Loch Sunart)	56	31	51.3	40.1	45.7	+ 0.7	34	5	7	5.41	+ 3.61	*	*	*
7. ENGLAND, N.W.	Glasgow	56	40	50.6	43.1	46.9	+ 2.9	34	0	6	3.28	+ 2.40	7.5	- 5.0	12
	Ardrossan	55	42	51.7	45.1	48.4	+ 2.9	45	0	7	2.51	+ 1.61	*	*	*
	Glenlee	58	40	52.6	43.9	48.3	+ 5.1	44	0	7	4.07	+ 2.67	*	*	*
	Douglas (Isle of Man)	58	38	54.2	44.7	49.5	+ 4.0	53	0	5	2.05	+ 0.95	26.3	+ 7.5	41
	Stonyhurst	58	39	52.6	44.2	48.4	+ 4.6	45	0	7	3.81	+ 2.66	13.3	- 1.5	21
	Blackpool	59	47	55.5	47.7	51.6	+ 6.4	67	0	7	2.11	+ 1.24	16.2	+ 0.8	25
8. ENGLAND, S.W.	Manchester (Prestwich)	60	38	54.3	43.7	49.0	+ 4.5	49	0	7	1.92	+ 1.07	15.3	?	24
	Liverpool Obs. (Bidston)	60	42	54.3	46.0	50.2	+ 4.4	57	0	7	0.81	+ 0.11	*	*	*
	Llandudno	63	44	56.0	46.9	51.5	+ 4.4	67	0	6	0.76	- 0.13	20.0	+ 4.3	31
	Holyhead	58	44	54.6	45.7	50.2	+ 2.6	57	0	6	1.11	+ 0.10	*	*	*
	Llandovery	59	28	55.6	39.0	47.3	+ 2.4	50	8	7	1.84	+ 0.57	*	*	*
	Pembroke	57	42	54.7	49.4	52.1	+ 3.4	71	0	7	0.80	- 0.15	29.4	+ 10.3	45
9. IRELAND N.	Clifton	61	39	55.2	45.6	50.4	+ 4.7	59	0	6	1.04	+ 0.23	*	*	*
	Arlington (N. Devon)	58	37	54.3	43.6	49.0	+ 3.2	49	0	7	1.65	+ 0.13	*	*	*
	Cullompton	60	32	55.9	41.3	48.6	+ 4.5	49	2	5	0.67	- 0.22	26.6	+ 8.4	40
	Falmouth	58	43	56.0	46.6	51.3	+ 2.8	65	0	6	0.91	- 0.38	32.3	+ 9.1	48
	Plymouth	59	37	57.2	44.5	50.9	+ 2.7	62	0	6	0.43	- 0.39	27.7	+ 6.5	41
	Prawle Point	58	42	56.1	47.3	51.7	+ 4.2	68	0	5	0.70	- 0.13	*	*	*
10. IRELAND S.	Malin Head	55	36	51.6	42.7	47.2	+ 0.8	36	0	7	1.62	?	*	*	*
	Londonderry	57	35	50.9	41.2	46.1	+ 1.5	32	2	7	1.33	+ 0.33	*	*	*
	Edenfel (Omagh)	58	35	52.0	40.0	46.0	+ 2.9	36	6	7	1.97	+ 1.12	*	*	*
	Belmullet	58	40	53.1	44.0	48.6	+ 0.7	46	0	7	1.49	+ 0.19	*	*	*
	Markree Castle	58	32	53.0	39.3	46.2	+ 2.0	41	8	7	1.45	+ 0.40	16.2	- 2.0	25
	Armagh	59	37	52.2	41.2	46.7	+ 2.8	36	2	6	0.85	+ 0.12	20.2	+ 4.0	32
CHANNEL ISLANDS	Donaghadee	59	36	53.7	41.6	47.7	+ 2.6	42	1	5	0.86	+ 0.03	*	*	*
	Dublin	63	40	55.3	44.4	49.9	+ 3.4	55	0	5	0.68	- 0.04	28.2	+ 7.3	43
	Parsonstown	60	37	54.1	40.9	47.5	+ 2.3	43	3	6	0.72	+ 0.12	19.8	+ 2.0	30
	Kilkenny	61	31	54.7	38.7	46.7	+ 1.5	47	9	5	0.54	- 0.24	*	*	*
	Roche's Point	60	40	55.1	44.7	49.9	+ 1.5	55	0	4	0.88	- 0.19	*	*	*
	Valencia	60	41	55.3	47.4	51.4	+ 2.4	60	0	7	1.07	- 0.33	24.0	+ 3.5	37
CHANNEL ISLANDS	Killarney	66	37	56.3	42.5	49.4	+ 2.4	52	0	7	1.22	?	*	*	*
	Foynes	62	41	54.2	45.5	49.9	+ 4.1	55	0	7	0.93	?	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	61	47	58.9	48.9	53.9	+ 3.1	83	0	6	0.63	- 0.17	30.5	?	46
	Jersey	61	45	59.1	48.4	53.8	+ 3.8	83	0	6	1.22	+ 0.12	21.8	- 2.3	33

Stations marked *fi* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

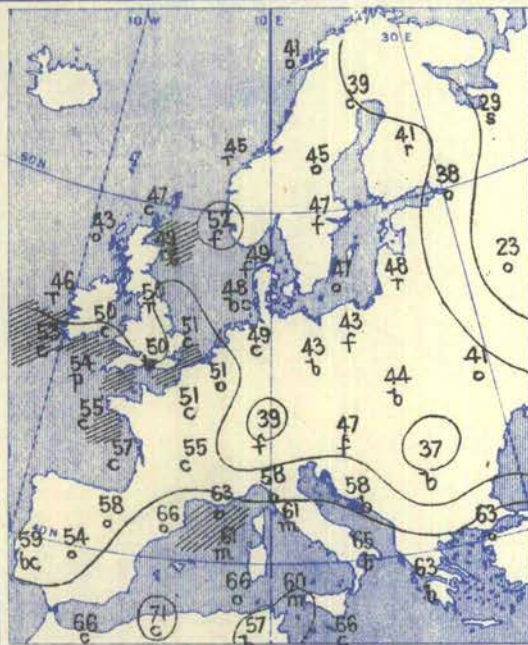
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 30th October.

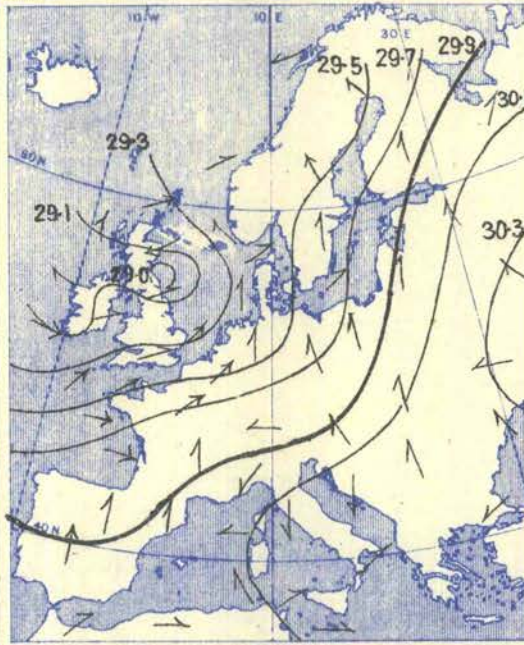
Temperature and Weather.

8 a.m.

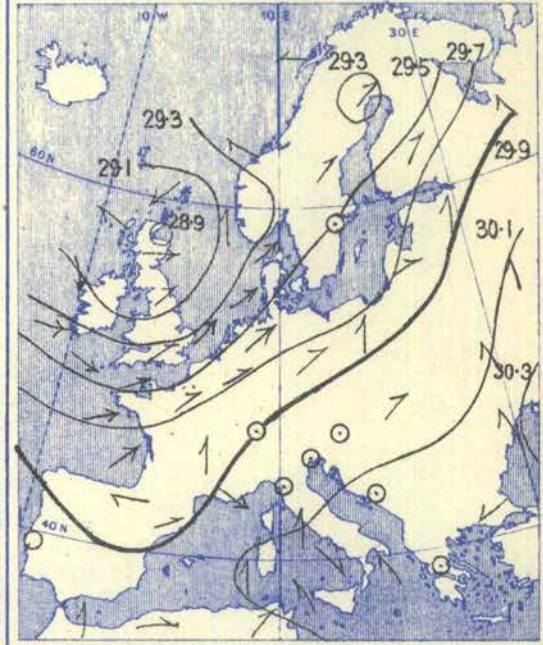


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning rainy in Ireland and Scotland, but fair over the greater part of England and France; dull over Spain, the south of France, and northern Italy, but fine in the south of Italy and in Greece. Cloudy or dull over the greater part of northern and central Europe, with fog in many places, rain at Christiansund, Kuopio, and Riga, and snow at Archangel. Rain falling later over nearly the whole of western and northern Europe; thunderstorms and heavy rain occurring in the south of France—as much as 2.5 ins. measured at Nice.

Temperature fallen in England and France, but risen in most other countries. Morning readings highest, 71° at Algiers, and 60° at Barcelona, San Fernando, Cagliari, Malta, and Oran; above 60° at most of the Mediterranean stations. Lowest, 23° at Moscow, 29° at Archangel, and 39° at Haparanda and Uleaborg. Rising during day to between 55° and 58° at most of the English and Irish stations; exceeding 60° in France, and exceeding 70° over Spain, southern Italy, and the Mediterranean, the highest reading of all being 75° at Cagliari.

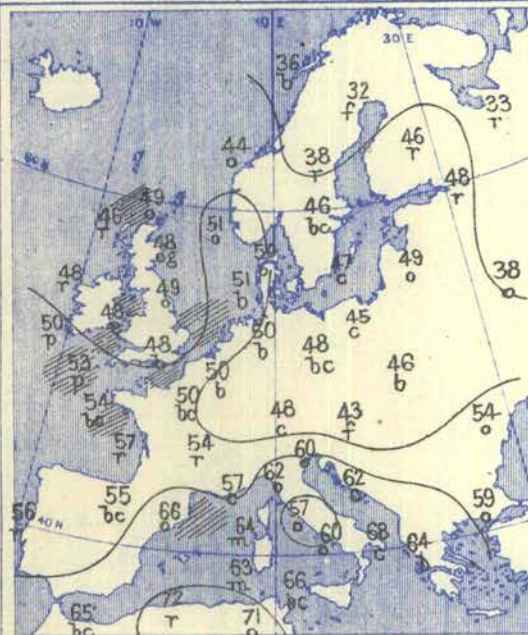
Wind fresh to strong from the South-Westward over England, the south of Ireland, France, and the Netherlands; light to moderate from the Southward, over Denmark, north Germany, the Baltic, and Finland; South-Easterly or Easterly over the northern part of Scandinavia and the north-east of Scotland, and blowing a moderate gale from North-East at Aberdeen. Light from the Southward or South-Eastward in Austria and the south of Russia; variable in Italy; Southerly over the Spanish Peninsula. Subsequently veering to the South-Westward or Westward in all but the extreme northern parts of our Islands, and blowing with the force of a gale in many places.

Barometer highest, 30.3 ins. and upwards over the southern parts of Russia; 30.1 ins. and upwards in an anticyclone covering the whole of eastern and south-eastern Europe. Lowest, 29.0 ins. and less in a depression with its centre off the Berwickshire coast; 29.1 ins. and less in another disturbance off the south-west of Ireland. Depressions moving northwards later to the north-east and north-west of Scotland, and barometer rising over the whole of Ireland and England.

Monday, 31st October.

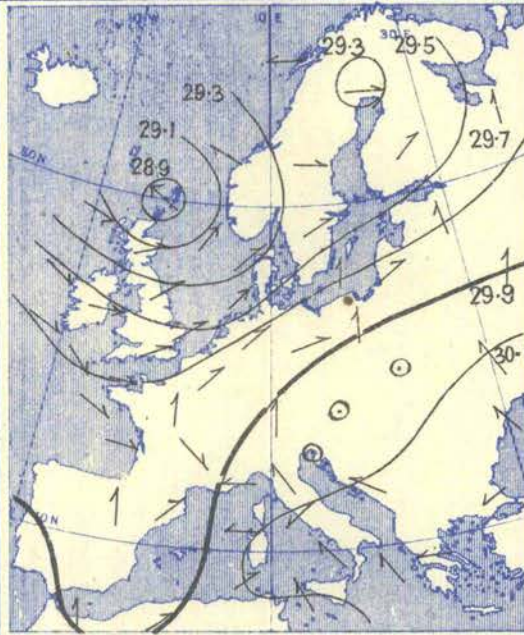
Temperature and Weather.

8 a.m.

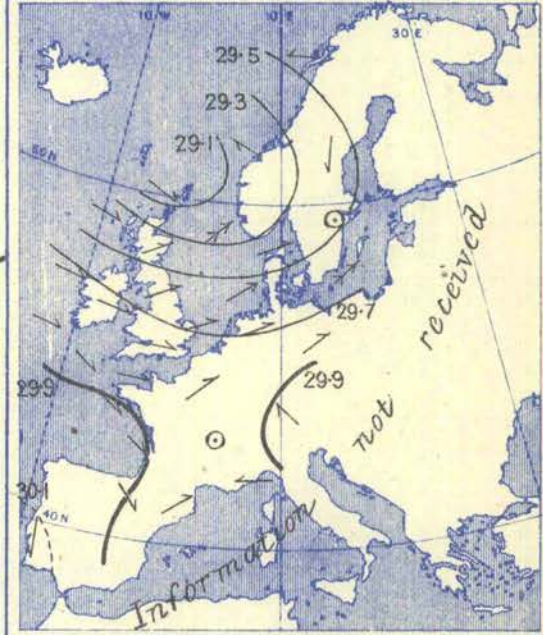


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the southern parts of our Islands, and also over the Netherlands, Germany, and the north of France. Cloudy or dull in nearly all other parts of Europe, with rain at several of the northern stations in our Islands and the Continent, as well as over western and central France, and at Lisbon; fog very general in Austria. Improvement taking place later in the north of England, but weather remaining squally and rainy on our extreme north and north-west coasts. Heavy rain falling in the extreme south of France—as much as 3.1 ins. at Nice, where thunder occurred.

Temperature fallen in most of the western and northern countries. Morning readings highest, 72° at Algiers, 71° at La Calle, and 68° at Brindisi; above 60° at most of the Mediterranean and Adriatic stations. Lowest, 32° at Haparanda, 33° at Archangel, and 35° at Uleaborg; below 40° in several parts of Russia and the north of Scandinavia. Daily maxima very little above 50° in the west and north of our Islands, but exceeding 55° over central and southern England; exceeding 60° in France and reaching 68° at Nice. Ground frost occurring over central England at night.

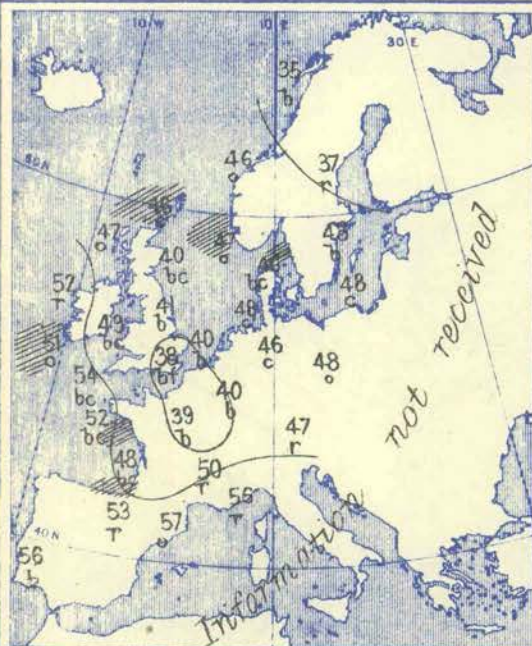
Wind strong from the Westward or North-Westward on our own western coasts, and blowing a gale from North at Wick; moderate to fresh from the South-Westward over the east of Great Britain and also over the greater part of northern and central Europe, but Easterly in the west of Norway. Light from the Southward in the south of France, and from the South-Eastward or Eastward over Italy and the Adriatic; calm in Austria; Southerly or South-Easterly in the south of Russia.

Barometer highest, 30.3 ins. and upwards in the south of Russia; 30.1 ins. and upwards in an anticyclone covering south-eastern Europe generally. Lowest, 28.9 ins. and less in a rather deep depression with its centre between the Orkneys and Shetlands; 29.3 ins. and less in a small shallow system over Lapland. Former disturbance travelling northwards later, and barometer rising over western Europe generally.

Tuesday, 1st November.

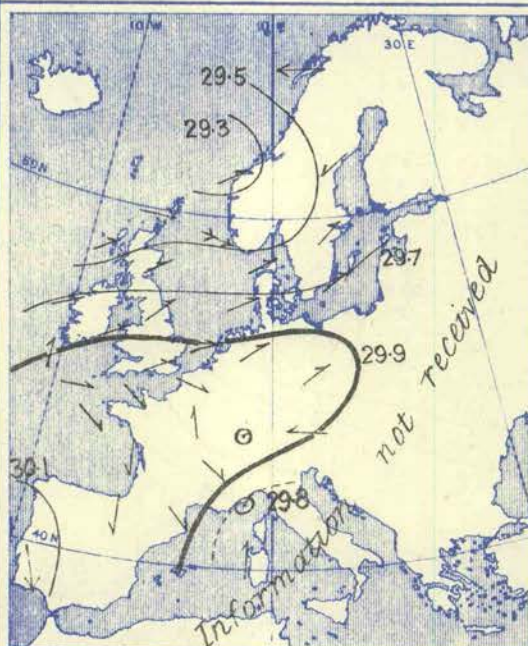
Temperature and Weather.

8 a.m.

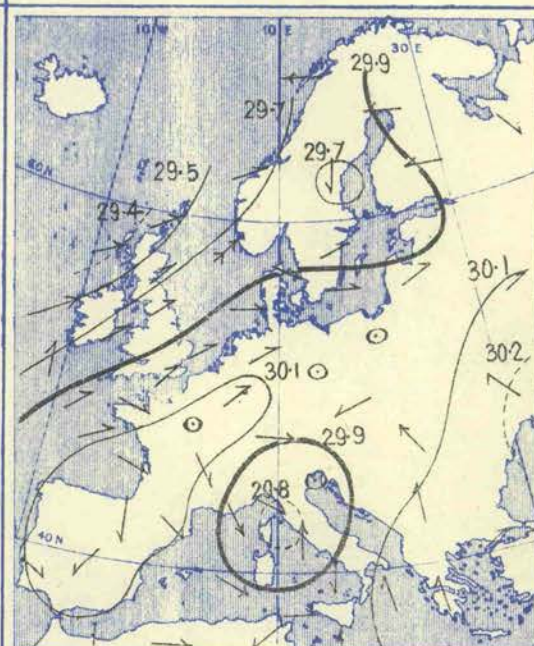


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands, but squally and showery on our extreme north-west coasts. Fine over the northern parts of France, but rather changeable at the Continental stations generally, with rain in the south of France as well as at Munich, the Helder and Hernösand. Rain falling later in the west and north of our Islands generally—heavily in the west of Scotland. Considerable quantities reported also over Italy and the southern parts of France and Germany. Snow falling at Uleaborg.

Temperature fallen over western Europe generally, but risen on our own extreme western coasts. Morning readings highest, 57° at Perpignan, 56° at Nice and Lisbon, and 54° at Scilly; above 50° on our extreme west and south-west coasts generally. Lowest, (1) 34° at Loughborough and 36° at Oxford and Cambridge; (2) 35° at Bodö and 37° at Hernösand. Thermometer rising during day to 55° and upwards in most parts of the United Kingdom and to 60° at Jersey; exceeding 60° over the Spanish Peninsula and the south of France, and exceeding 70° in Italy, the highest reading of all being 81° at Palermo.

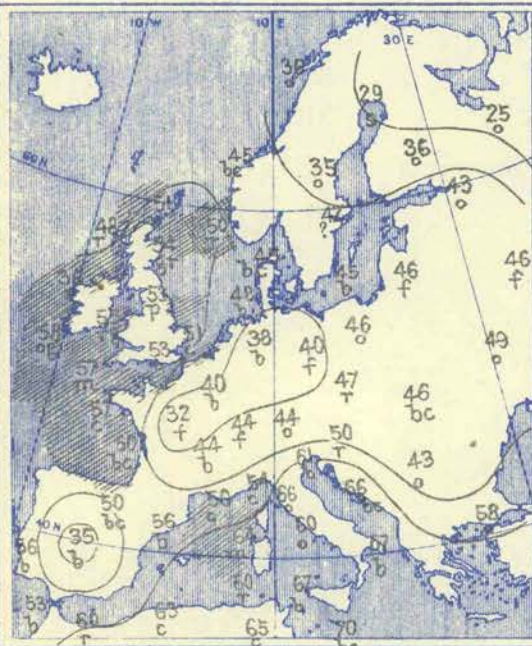
Wind light to moderate from the South-Westward or Westward over our Islands and also in Denmark and north Germany, and strong to a gale from the same quarters in the south of Scandinavia; Easterly or North-Easterly in the north of Scandinavia. Light from the Northward or North-Westward in the west and south of France. Subsequently increasing from the South-Westward in our Islands and blowing a gale at night on most parts of our western and northern coasts.

Barometer highest, 30.1 ins. and upwards in Portugal; 30.0 ins. and upwards in an anticyclone extending thence over the Bay of Biscay and the western parts of France and the English Channel. Lowest, 29.3 ins. and less in a depression lying off the west of Norway. Depression subsequently moving away to the northward, but new disturbance approaching our western coasts in evening.

Wednesday, 2nd November.

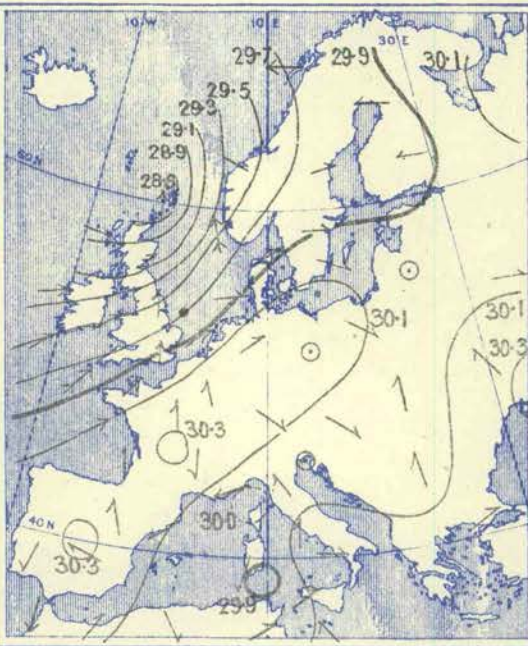
Temperature and Weather.

8 a.m.

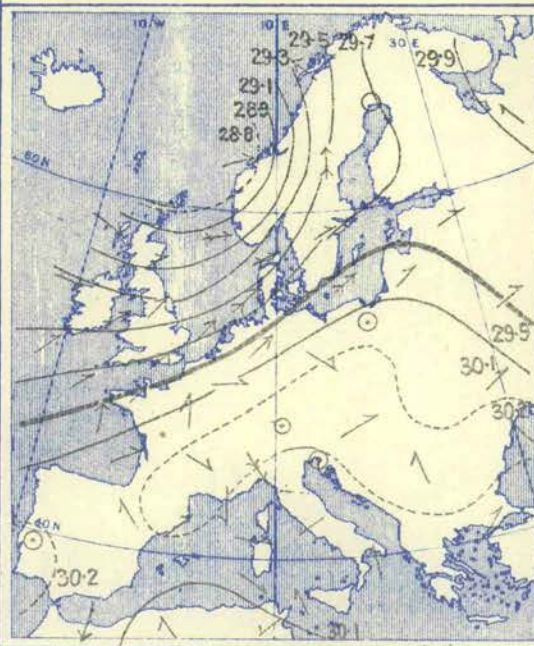


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull in our Islands, with rain at all but our southern and south-eastern stations. Fine over the western and southern parts of the Continent generally, as well as in Denmark and the south of Sweden; dull in the eastern and central countries, with fog in several places, rain over Austria and eastern Germany, and snow at Uleaborg. Rain falling later in nearly all parts of Europe—heavily in the Hebrides, as well as at many of the Italian and Algerian stations—as much as 2.7 ins. at Rome and 2.2 ins. at Nemours.

Temperature risen in our Islands and the west and north of France, as well as in Austria, but fallen elsewhere. Morning readings highest, 70° at Malta, 68° at Athens and 67° at Brindisi; above 60° at the Mediterranean and Adriatic stations generally. Lowest, (1) 25° at Archangel, 27° at Haparanda and 29° at Uleaborg; (2) 32° at Paris and Limoges and 35° at Le Mans. Rising during day to 60° or slightly above it at several stations in the northern parts of Great Britain; exceeding 65° in many parts of southern Europe and exceeding 70° over southern Italy, the highest reading of all being 79° at Cagliari.

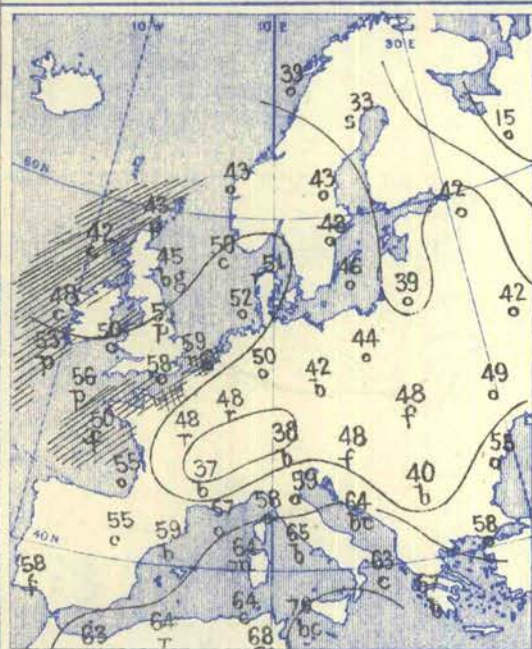
Wind strong from the South-Westward over the whole of our Islands, with a gale in the west; light to moderate from the same quarter or from South over the Netherlands, Denmark and the north of France; South-Easterly or Easterly in the west of Norway, with a gale at Skudenes. Westerly in Sweden, but South-Westerly in the Gulf of Finland. Variable over Italy, Austria and the south of Russia; Northerly (North-Easterly to North-Westerly) over the Spanish Peninsula and the south of France. Subsequently increasing to a gale from the South-Westward over the whole of England, the North Sea, Denmark and the south of Scandinavia.

Barometer highest, 30.2 ins. and upwards in an anticyclone lying over the Spanish Peninsula, France and Germany, and also in another system over the south of Russia. Lowest, 28.8 ins. and less in a deep depression with its centre off the north of Scotland; gradients steep over north-western Europe generally. Depression subsequently moving slowly north-eastwards, and barometer rising again on our western and northern coasts.

Thursday, 3rd November.

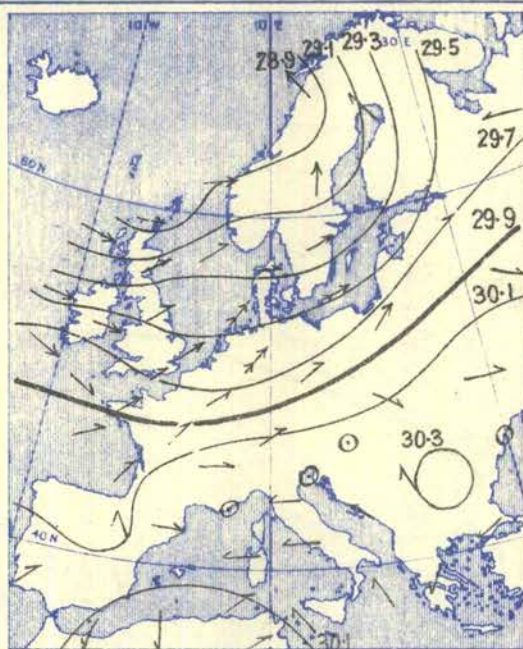
Temperature and Weather.

8 a.m.

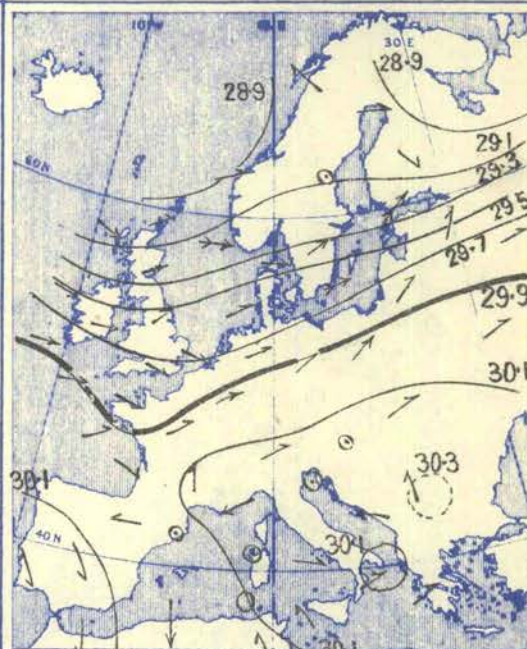


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning squally and showery over the whole of our Islands and the neighbouring parts of the Continent. Fine in many parts of southern Europe, but dull in all the northern, eastern, and central countries, with fog in Austria, rain at Uleaborg, Faerder, and Skagen, and snow at Haparanda. Rain falling during day in nearly all parts of Europe—heavily in the north of Scotland; thunder and lightning occurring at Stornoway and Leith, and lightning seen at night on our extreme north-west coasts. Heavy rain in Algeria—as much as 1.9 ins. at Algiers and Annale; thunderstorm occurring at Oran.

Temperature fallen briskly in the west and north of our Islands, and to a less extent in Russia and Austria; risen elsewhere. Morning readings highest, 70° at Malta, 68° at Tunis, and 67° at Athens; above 60° at most of the Mediterranean and Adriatic stations. Lowest, (1) 15° at Archangel, 33° at Haparanda, and 34° at Uleaborg; (2) 37° at Wiesbaden and Lyons; lowest in our Islands, 40° at Wick and Nairn. Remaining below 50° all day at many of our northern stations, but rising to 60°, or slightly above it, in the south and east of England. Exceeding 65° in most parts of southern Europe, and exceeding 70° over southern Italy.

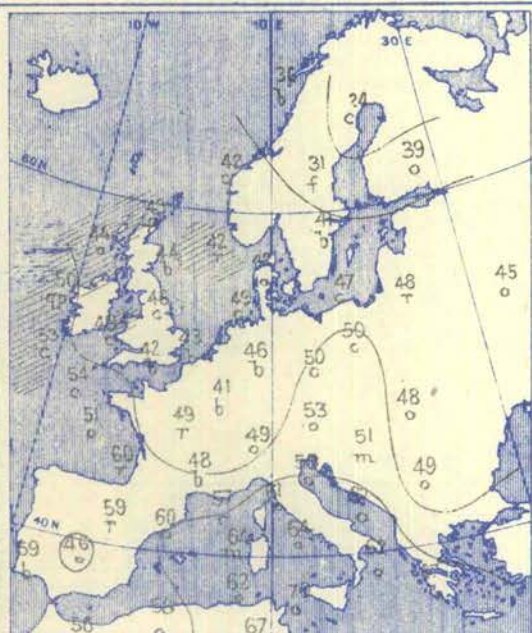
Wind strong to a gale from the Westward on most parts of our western coasts, and moderate or fresh from the same quarter in the north of Scotland. Strong to a gale from the South-Westward over the Channel and the south-east of England, as well as in Denmark, the Baltic, and the south of Sweden; South-Easterly or Easterly in the north of Scandinavia. Variable over the Spanish Peninsula and the extreme south of France; Easterly or South-Easterly over Italy; calm in Austria; variable in the south of Russia. Wind subsiding later on our south and south-east coasts, and also in Denmark, and veering to the Westward.

Barometer highest, 30.30 ins. at Hermanstadt, 30.1 ins. and upwards in an anticyclone covering nearly the whole of eastern, central, and southern Europe. Lowest, 28.8 ins. and less in a depression lying off the northern parts of the Norwegian coasts, 28.9 ins. and less in a secondary system near the Shetlands. Further small secondary disturbances moving eastwards across our Islands during day.

Friday, 4th November.

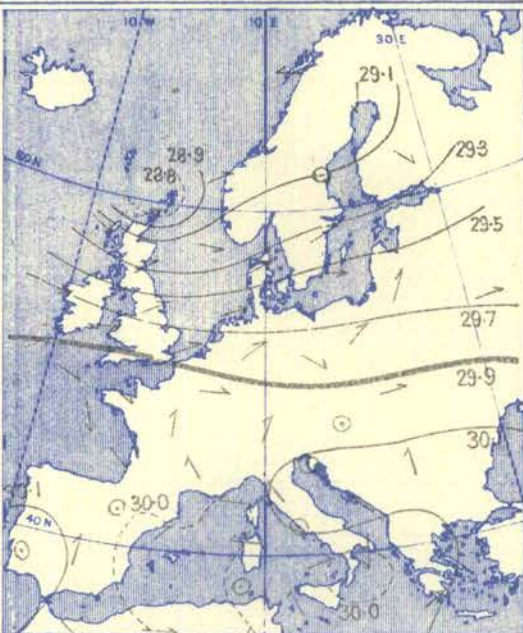
Temperature and Weather.

8 a.m.

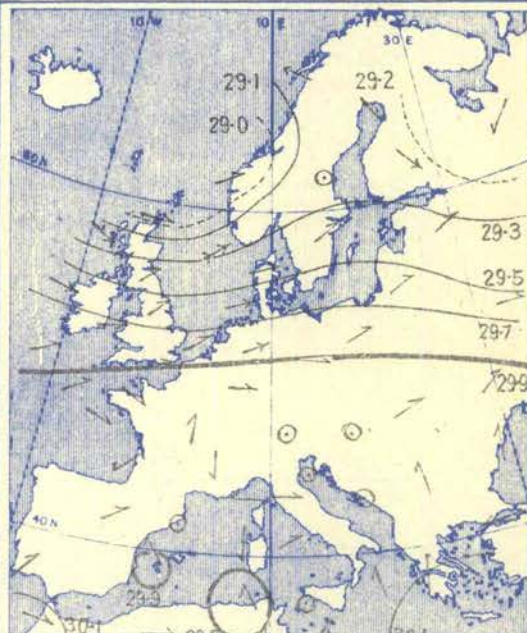


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over England and the east of Scotland, but showery in the west and extreme north of our Islands generally, with hail at Wick. Cloudy or dull over the greater part of the Continent, with fog in Austria, rain in many parts of France and northern Italy, as well as at Skudesnaes, and snow at Uleaborg. Rain falling later in the western, northern, and southern parts of the United Kingdom, as well as over Denmark and the greater part of southern Europe—heavily at Stornoway, and also at Palma; thunderstorm occurring at La Calle.

Temperature fallen in England, and also in Scandinavia and Denmark; changed irregularly elsewhere. Morning readings highest, 70° at Palermo and Tunis, and 67° at Lesina and La Calle; above 60° at the Mediterranean and Adriatic stations generally. Lowest, (1) 24° at Haparanda, and 31° at Uleaborg and Hernösand; (2) 40° at Cambridge, 41° at Brussels, and 42° in London. Daily maxima below 50° in the north of Scotland, and below 55° in all parts of our Islands, excepting the central and southern parts of England. Thermometer exceeding 60° in most parts of southern Europe, and exceeding 70° over southern Italy.

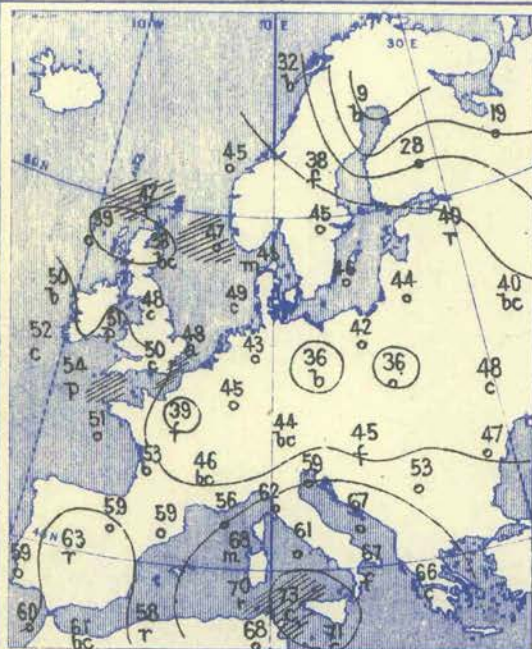
Wind Westerly or South-Westerly over the greater part of our Islands and northern and central Europe, but North-Westerly in the north of Scotland; strong in many places, with a gale in the west of Scotland. Light from the Northward or North-Westward in the west of France, but from the Southward or South-Eastward over the central parts of that country. Calm or variable over southern Europe generally. Subsequently increasing to a gale from the Westward or South-Westward in the Shetlands, and also in the south of Scandinavia.

Barometer highest, 30.1 ins. and upwards in an anticyclone lying over Portugal, and also in another system over south-eastern Europe. Lowest, 28.8 ins. and less in a deep depression with its centre a little to the northward of the Shetlands. Depression subsequently moving away to the north-eastward, but small secondary disturbances beginning to advance eastwards across Ireland and England.

Saturday, 5th November.

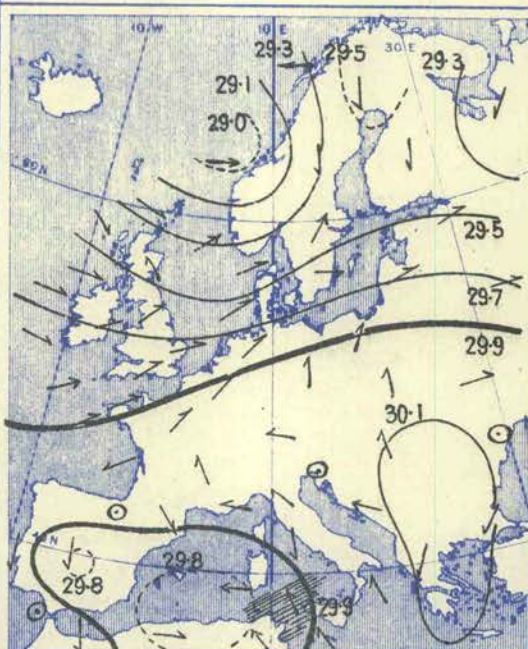
Temperature and Weather.

8 a.m.

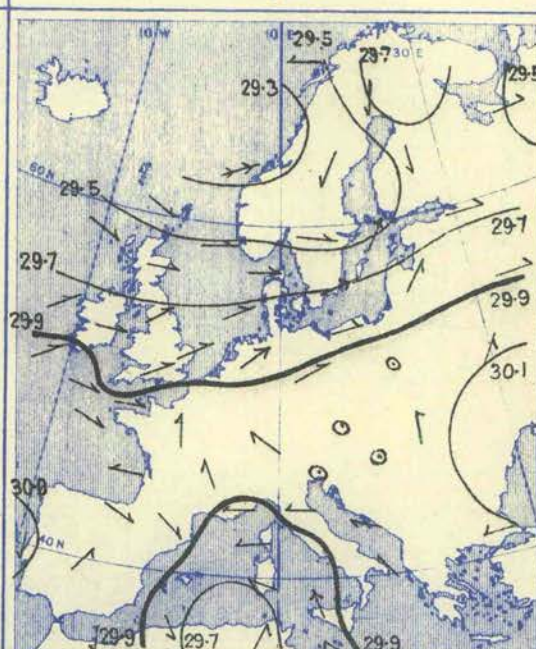


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy and showery over the United Kingdom. Dull over the greater part of the Continent, with fog or mist in many places, and rain at Christiansund, as well as at Madrid and several of the Mediterranean stations; thunderstorm reported at La Calle. Fine in the north of Scandinavia. Showers falling later in nearly all parts of western Europe, and heavy snow at Hernösand. Much rain at some of the Mediterranean stations (2.9 ins. at Algiers), with a thunderstorm at Palermo.

Temperature risen over England, as well as in Scandinavia, Denmark, and many parts of southern Europe; fallen in most other localities. Morning readings highest, 73° at Palermo, 71° at Malta, and 70° at Cagliari; above 65° at several of the Mediterranean and Adriatic stations. Lowest, 9° at Haparanda, 19° at Uleaborg and Archangel, and 28° at Kuopio; lowest in our Islands, 38° at Nairn and Aberdeen. Rising during day to 55° and upwards at several of our central and southern stations; exceeding 60° in the west and south of France, and exceeding 70° over central and southern Italy, the highest reading of all being 86° at Palermo. Ground frost occurring at night in many parts of Great Britain.

Wind light to fresh from the North-Westward in the north of Scotland, from the Westward on our western coasts, and from the South-Westward over England, the north of France, the Netherlands, Denmark, and north Germany. Strong from the South-Westward or Westward in the south of Scandinavia; light from the Northward over Finland and the Gulf of Bothnia. Calm or variable over France, Austria, and the south of Russia; South-Easterly over Italy and the Adriatic; Easterly in the Riviera; Northerly over the Spanish Peninsula. Subsequently backing to the South-Westward in the west of Ireland; no important change occurring elsewhere.

Barometer highest, 30.1 ins. and upwards over Turkey and Greece; 30.0 ins. and upwards in an anticyclone lying over the south-eastern parts of Europe generally. Lowest, 29.0 ins. and less in a well-marked depression with its centre off the west of Norway; 29.3 ins. and less in another disturbance over the north of Russia; 29.8 ins. and less in two shallow systems—one lying over central Spain, and the other over the western part of the Mediterranean. Barometer rising over western Europe during day.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: —b— = blue sky; —c— = detached clouds; —o— = overcast; —m— = misty (hazy); —f— = foggy; —q— = squally; —r— = rain; —h— = hail; —s— = snow; —l— = lightning; and —t— = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the time, when barometrical pressure was highest over the central and southern parts of Russia, the weather in the western countries was influenced by a complex depression, with two distinct minima, which travelled northwards over our Islands. The disturbance produced rain in all parts of western and northern Europe, the amount being large in places, and in its rear the wind blew very strongly from the Westward over the whole of our Islands, with a slight gale in places.

As the depression passed away a new anticyclone spread over the Spanish Peninsula and France, the first effect of this being seen in the development of shallow cyclonic systems over southern Europe in the hollow dividing the two high-pressure areas. These disturbances occasioned very heavy falls of rain in many parts of Italy and the south of France, with thunderstorms in places. Later on the two anticyclones coalesced, and the weather over southern Europe showed some improvement. In the north-western and northern countries, however, the conditions were influenced by a depression of considerable size and depth, the centre of which advanced to the north of Scotland on the night of the 1st. This system occasioned fresh to strong gales from the South-Westward, first of all in our Islands, and afterwards over Denmark, Scandinavia, and the Baltic, with rain in nearly all places, the amounts being considerable in Scotland, where thunder and lightning occurred on the 3rd. The disturbance was now passing away to the north-eastward, but a new depression—probably of a secondary nature—was developed off the north of Scotland on the 4th. At the close of the week this was also travelling to the North-Eastward, and the weather in our Islands was inclined to improve.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 260.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	19.7	?	33	?	WESTBOURNE (Emsworth)	28.9*	+ 8.9	44*	+15
STRATHPEFFER SPA	6.5	-10.3	11	-15	WATERGATE (Emsworth)	26.4	?	40	?
EDINBURGH	14.7	- 2.3	24	0	BRIGHTON	27.5	+ 4.5	42	+ 8
MORPETH	21.3	?	34	?	EASTBOURNE	30.7	+10.2	47	+18
NEWCASTLE-ON-TYNE	14.8	?	23	?	VENTNOR HOSPITAL	30.0	?	45	?
OSWALDKIRK (Yorkshire)	10.6	+ 1.6	26	+ 3	SOUTHPORT	20.0	?	31	?
HOLLESLEY BAY	31.5	?	48	?	COLWYN BAY	22.3	?	34	?
SHEFFIELD	23.1	?	36	?	TENBY	28.1	+ 8.1	43	+14
WORKSOP	19.4	+ 4.2	30	+ 8	NEWQUAY	28.7	+ 6.7	43	+11
THURCASTON (Leicestershire)	29.0	+12.2	45	+20	TORQUAY	29.1*	+ 9.1	43*	+14
PLUMSTEAD COMMON	27.2	?	41	?	GUERNSEY	22.7*	+ 2.2	34*	+ 4
MARGATE	30.6	+10.6	46	+17					

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.VOL. XV. No. 45.]
Third Series.

WEEK ENDING SATURDAY, NOVEMBER 12TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty years 1869-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 266.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	61	26	52.5	38.8	45.6	4 above	Day-deg. 39	Day-deg. +17	Day-deg. 9	Day-deg. - 5	Day-deg. 2208	Day-deg. +313	Day-deg. 414	Day-deg. -265
	1. SCOTLAND, EAST	57	26	50.3	36.7	43.5	2 above	33	+ 9	15	- 2	2492	+212	450	-266
	2. ENGLAND, N.E.	56	31	51.7	40.6	46.2	3 above	35	+ 7	4	- 6	2800	+328	337	-243
	3. ENGLAND, EAST	60	31	55.1	41.5	48.3	5 above	46	+12	1	-11	3137	+278	412	-243
	4. MIDLAND COUNTIES	59	34	52.4	41.6	47.0	4 above	37	+ 6	1	-13	3066	+235	418	-253
	5. ENGLAND SOUTH	61	33	56.2	45.8	51.0	6 above	63	+24	0	- 7	3479	+368	234	-268
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	58	33	52.3	42.6	47.5	4 above	39	+10	0	-11	2724	+318	245	-257
	7. ENGLAND, N.W.	61	37	53.8	44.1	49.0	4 above	49	+17	0	- 7	2987	+351	215	-268
	8. ENGLAND, S.W.	61	33	56.0	47.5	51.8	6 above	69	+26	0	- 4	3322	+399	205	-170
	9. IRELAND, NORTH	59	34	54.0	42.8	48.4	4 above	45	+14	0	- 9	2356	+321	229	-194
	10. IRELAND, SOUTH	61	35	55.9	44.9	50.4	5 above	59	+18	0	- 7	3332	+455	165	-169
	—CHANNEL ISLANDS.	63	45	59.4	50.0	54.7	5 above	89	+28	0	0	3948	+590	55	- 93

DISTRICTS. (See p. 266.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	10ths of in. 5	10ths of in. 7 less	218	+10	Ins. 51.3	+10.0	18	+ 9	33	+16	1195*	+170	29	+ 4
	1. SCOTLAND, EAST	3	6	2 less	172	+ 2	24.9	- 2.2	11	- 3	19	- 4	1266	+ 51	31	+ 1
	2. ENGLAND, N.E.	1	3	4 less	148	-11	18.2	- 4.4	9	- 4	15	- 6	1183	- 7	30	0
	3. ENGLAND, EAST	2	1	5 less	130	-26	16.1	- 6.4	27	+ 9	44	+14	1468	- 7	36	0
	4. MIDLAND COUNTIES	2	3	3 less	136	-16	17.7	- 6.6	9	- 7	15	-10	1322*	+ 39	34	+ 1
	5. ENGLAND, SOUTH	1	2	6 less	123	-25	16.4	- 8.4	21	+ 4	33	+ 7	1458	- 13	38	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	6	6 less	189	+12	37.8	- 3.3	7	- 7	11	-11	1273	+ 13	32	0
	7. ENGLAND, N.W.	3	5	4 less	166	+ 1	29.5	- 0.4	17	+ 5	28	+ 8	1373	+111	35	+ 3
	8. ENGLAND, S.W.	3	5	5 less	153	-15	27.7	- 5.5	15	- 3	24	- 3	1613	+ 49	40	+ 1
	9. IRELAND, NORTH	3	6	4 less	204	+12	31.3	- 0.8	15	- 1	25	- 1	1242	+ 51	31	+ 1
	10. IRELAND, SOUTH	4	9	0 (average)	166	- 8	32.3	- 0.7	16	- 2	26	- 2	1414	+ 60	45	+ 1
	— CHANNEL ISLANDS.	3	6	3 less	170	- 7	21.4	- 6.5	28	+14	43	+23	1885	+131	49	+ 4

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period was fair and dry over the greater part of the Kingdom, but much damp fog and mist prevailed at times. Towards the end of the week, however, rainy conditions spread over the entire Kingdom from the westward, the rainfall being heavy at several of the western and south-western stations, and accompanied by thunder and lightning in the English Channel.

Temperature was again above the mean, the excess ranging from 2° in Scotland E. to 5° in England E., Ireland S., and the Channel Islands, and to 6° in England S. and S.W. The highest of the maxima occurred, as a rule, about the middle of the week, and ranged from 63° in the Channel Islands, and 61° or 60° in several other districts, to 56° in England N.E. The lowest of the minima were registered during the earlier days of the week over England, and on the 9th or 10th in Scotland and some parts of Ireland; they varied from 26° in Scotland N. and E., and from 31° in England E. and N.E., to 37° in England N.W., and to 45° in the Channel Islands.

Rainfall was less than the mean in all districts, excepting Ireland S., the fall over the greater part of England being very slight.

Bright Sunshine exceeded the mean in Scotland N., England E., S., and N.W., as well as in the Channel Islands, but was less than the normal in all other districts. The percentage of the possible duration ranged from 44 in England E., and 43 in the Channel Islands, to 15 in England N.E., and the Midland counties, and to 11 in Scotland W.

Barometer and Wind.—During nearly the whole of this period the barometer was highest in the east, and lowest in the west and north-west, an anticyclone occasionally extending over the North Sea and England. Depressions skirted our extreme western and north-western coasts at times, but in no case did any system travel directly over the Kingdom until quite the end of the period, when a "V"-shaped disturbance passed over us from the westward. The winds were generally light or moderate from the South-Eastward or Eastward in the east and south-east, and from between South-East and South-West in the west and north. During the latter part of Saturday, however, they suddenly shifted to the North-Westward or Northward in Ireland and the western parts of Great Britain in the rear of the "V" disturbance, and blew with the force of a moderate to strong gale.

II.—DATA from which the SUMMARY on page 265 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	53	39	51.6	42.4	47.0	+ 4.2	35	0	4	0.35	- 0.65	*	*	*	*
	Stornoway	57	35	53.3	40.1	46.7	+ 4.3	41	5	5	0.92	- 0.21	17.4	+ 3.8	31	+ 8
	Wick	53	30	52.6	38.6	45.6	+ 3.6	39	10	1	0.05	- 0.70	*	*	*	*
	Lairg	56	26	53.2	35.1	44.2	+ 3.6	44	19	2	0.22	- 0.62	*	*	*	*
	Glencarron	61	33	53.5	38.5	46.0	+ 4.8	43	10	2	0.73	- 1.49	*	*	*	*
	Fort Augustus	57	28	52.3	36.6	44.5	+ 1.9	40	15	4	0.56	- 0.42	18.3	+11.3	32	+21
1. SCOTLAND, E.	Fort William	56	35	50.7	40.1	45.3	+ 2.3	31	5	3	0.70	- 1.08	16.8	+ 6.0	29	+12
	Nairn	57	27	53.1	34.6	43.9	+ 2.5	44	21	2	0.52	+ 0.03	*	*	*	*
	Aberdeen	51	30	50.0	38.1	44.1	+ 2.0	31	11	2	0.66	- 0.04	9.8	- 7.3	17	-11
	Braemar	53	26	49.5	35.0	42.3	+ 3.5	32	20	3	0.52	- 0.40	18.3†	+ 9.8†	32†	+18†
	Ochertyre	54	30	48.9	35.6	42.3	+ 0.6	29	18	3	0.43	- 0.57	*	*	*	*
	Leith	53	37	49.3	39.7	44.5	+ 1.2	27	6	2	0.44	0.00	*	*	*	*
2. ENGLAND, N.E.	Marchmont	55	34	50.9	37.0	44.0	+ 3.0	35	14	4	0.70	- 0.08	12.5	- 2.5	21	- 4
	Alnwick Castle	54	31	51.8	36.8	44.3	+ 1.5	38	15	1	0.40	- 0.30	*	*	*	*
	Durham	54	33	51.5	39.1	45.3	+ 3.3	35	8	1	0.21	- 0.47	14.5	- 0.5	24	0
	Shields	54	38	51.7	40.9	46.3	+ 2.6	35	3	1	0.30	- 0.27	*	*	*	*
	Scarborough	53	39	51.2	41.1	46.2	+ 2.2	33	3	2	0.13	- 0.57	12.6	?	21	?
	York	55	36	51.3	40.0	45.7	+ 2.7	34	6	1	0.40	- 0.16	4.2	- 9.0	7	-14
3. ENGLAND, E.	Spurn Head	56	43	52.9	45.9	49.4	+ 4.6	52	0	1	0.03	- 0.51	*	*	*	*
	Hillington	57	33	55.2	41.4	48.3	+ 5.3	47	2	3	0.14	- 0.47	32.0	+16.5	52	+26
	Yarmouth	54	38	53.0	45.4	49.2	+ 4.8	50	0	2	0.07	- 0.63	*	*	*	*
	Geldeston	60	33	56.4	39.1	47.8	+ 3.6	53	8	3	0.21	- 0.41	32.1	+14.3	51	+26
	Cambridge	60	35	56.9	40.3	48.6	+ 5.1	53	5	1	0.04	- 0.46	22.0	+ 4.3	35	+ 8
	Rothamsted	56	31	54.1	41.2	47.7	+ 4.9	40	0	2	0.04	- 0.64	16.9	- 1.1	27	- 1
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	55	35	51.1	39.3	45.2	+ 2.4	34	8	3	0.24	- 0.28	*	*	*	*
	Loughborough	59	34	53.1	39.4	46.3	+ 2.4	41	7	3	0.11	- 0.44	*	*	*	*
	Stamford (Duddington)	56	35	52.6	40.1	46.4	+ 3.4	39	5	2	0.10	- 0.50	*	*	*	*
	Cheadle	54	39	50.8	42.3	46.6	+ 4.4	32	0	2	0.48	- 0.30	*	*	*	*
	Shirley (near Solihull)	56	39	52.8	42.4	47.6	+ 5.2	39	0	1	0.49	?	*	*	*	*
	Churchstoke	56	37	51.9	42.9	47.4	+ 4.5	38	0	2	0.38	- 0.44	13.2	- 2.2	21	- 2
5. ENGLAND, S.	Hereford	58	36	52.6	43.3	48.0	+ 4.1	42	0	2	0.45	- 0.15	*	*	*	*
	Cirencester	55	34	52.6	41.9	47.3	+ 4.5	38	0	1	0.47	- 0.25	6.8	-10.8	11	-16
	Oxford	57	36	54.3	42.7	48.5	+ 4.5	46	0	2	0.25	- 0.28	12.2	- 5.1	19	- 6
	London	60	37	57.1	43.0	50.1	+ 5.2	57	0	0	—	?	9.5†	- 3.5†	15†	- 3†
	North Foreland	59	41	54.7	46.6	50.7	+ 5.6	61	0	1	0.15	?	*	*	*	*
	Cranley	60	33	57.1	45.1	51.1	+ 4.7	64	0	1	0.04	- 0.74	*	*	*	*
6. SCOTLAND, W.	Dungeness	60	43	56.3	47.7	52.0	+ 6.0	70	0	1	0.25	- 0.57	26.2	+ 6.7	42	+11
	Hastings (St. Leonards)	60	35	56.7	44.4	50.6	+ 4.9	60	0	2	0.33	- 0.43	11.4	- 6.7	18	-10
	Southampton	61	41	57.6	48.4	53.0	+ 6.3	77	0	2	0.36	- 0.40	*	*	*	*
	Hurst Castle	58	44	53.6	45.5	49.6	+ 6.6	53	0	1	0.22	- 0.63	*	*	*	*
	Shaftesbury	57	39	53.8	42.5	48.2	+ 4.2	43	0	2	0.60	- 1.32	*	*	*	*
	Laudale (Loch Sunart)	52	35	48.2	40.8	44.5	+ 1.6	23	3	3	0.53	- 0.35	0.5	- 9.7	1	-15
7. ENGLAND, N.W.	Glasgow	58	38	52.7	43.3	48.0	+ 3.6	42	0	1	0.34	- 0.56	*	*	*	*
	Ardrrossan	58	33	52.2	39.2	45.7	+ 3.7	38	8	3	0.95	- 0.50	*	*	*	*
	Glenlee	57	41	54.5	47.4	51.0	+ 6.2	63	0	2	0.62	- 0.48	13.1	- 3.9	21	- 6
	Douglas (Isle of Man)	53	40	50.9	43.7	47.3	+ 4.3	37	0	3	0.47	- 0.63	14.5	+ 1.7	24	+ 4
	Blackpool	57	41	53.2	43.1	48.2	+ 4.1	43	0	3	0.45	- 0.37	9.6	- 3.5	16	- 4
	Manchester (Prestwich)	55	37	53.1	41.2	47.2	+ 4.0	40	2	3	0.63	- 0.20	9.1	?	15	?
8. ENGLAND, S.W.	Liverpool Obsy. (Bidston)	54	43	52.0	44.1	48.1	+ 3.3	43	0	1	0.39	- 0.29	*	*	*	*
	Llandudno	61	43	57.1	45.9	51.5	+ 5.4	67	0	2	0.40	- 0.45	27.5	+13.5	44	+23
	Holyhead	59	44	56.4	46.7	51.6	+ 4.7	67	0	3	0.60	- 0.38	*	*	*	*
	Llandovery	57	33	55.4	43.0	49.2	+ 5.4	50	0	3	0.72	- 0.53	*	*	*	*
	Pembroke	56	49	54.7	50.7	52.7	+ 4.9	75	0	2	0.68	- 0.27	13.2	- 3.8	21	- 5
	Clifton	56	41	54.5	45.7	50.1	+ 5.8	57	0	1	0.03	- 0.78	*	*	*	*
9. IRELAND, N.	Arlington (N. Devon)	58	38	55.7	44.6	50.2	+ 5.4	57	0	3	0.63	- 0.87	*	*	*	*
	Cullompton	58	37	56.2	45.1	50.7	+ 6.7	61	0	2	0.52	- 0.36	10.6	- 5.4	17	- 6
	Falmouth	59	45	56.7	51.1	53.9	+ 6.0	83	0	4	0.70	- 0.58	16.4	- 4.2	26	- 5
	Plymouth	61	35	57.8	49.3	53.6	+ 6.4	81	0	3	0.35	- 0.50	24.1	+ 5.6	38	+13
	Prawle Point	60	46	57.3	50.6	54.0	+ 7.2	84	0	3	0.70	- 0.08	*	*	*	*
	Malin Head	55	44	53.0	45.1	49.1	+ 3.9	50	0	1	0.49	?	*	*	*	*
10. IRELAND, S.	Londonderry	59	37	54.8	40.6	47.7	+ 4.1	46	4	2	0.35	- 0.65	*	*	*	*
	Edenfel (Omagh)	54	37	52.4	42.6	47.5	+ 5.5	39	0	1	0.31	- 0.52	*	*	*	*
	Belmullet	58	44	54.6	45.4	50.0	+ 3.5	56	0	7	1.73	+ 0.38	*	*	*	*
	Markree Castle	57	34	54.3	39.7	47.0	+ 3.6	45	6	3	0.79	- 0.22	11.5	- 5.1	19	- 7
	Armagh	57	40	54.5	42.2	48.4	+ 5.5	45	0	2	0.17	- 0.53	19.0	+ 4.0	31	+ 6
	Donaghadee	56	37	54.7	43.9	49.3	+ 4.8	51	0	4	0.15	- 0.64	*	*	*	*
CHANNEL ISLANDS	Dublin	59	41	55.8	45.4	50.6	+ 5.1	60	0	2	0.29	- 0.39	13.6	- 5.4	22	- 8
	Parsonstown	59	39	55.9	43.1	49.5	+ 5.3	53	0	3	0.41	- 0.21	16.2	- 0.2	26	- 1
	Kilkenny	58	35	55.7	41.6	48.7	+ 4.1	49	1	4	0.60	- 0.12	*	*	*	*
	Roche's Point	58	41	56.7	47.9	52.3	+ 4.8	72	0	5	0.64	- 0.46	*	*	*	*
	Valencia	61	39	56.9	46.7	51.8	+ 3.8	69	0	5	1.33	- 0.05	18.7	+ 0.2	30	+ 2
	Killarney	59	37	55.7	44.6	50.2	+ 4.2	57	0	4	2.05	?	*	*	*	*
CHANNEL ISLANDS	Foynes	57	39	54.5	44.7	49.6	+ 4.6	53	0	5	0.79	?	*	*	*	*
	Scilly (St. Mary's)	60	48	58.4	50.6	54.5	+ 4.5	88	0	4	0.98	+ 0.15	15.5	?	24	?
CHANNEL ISLANDS	Jersey	63	45	60.3	49.4	54.9	+ 5.9	90	0	2	0.28	- 0.80	33.9	+12.6	52	+21

Stations marked *M* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

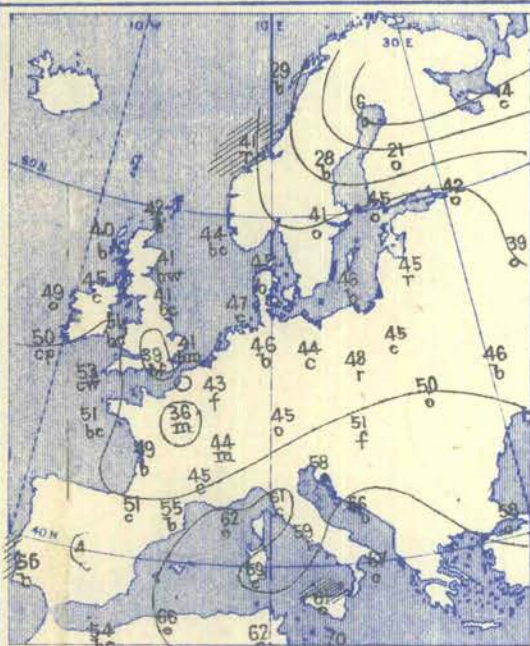
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 6th November.

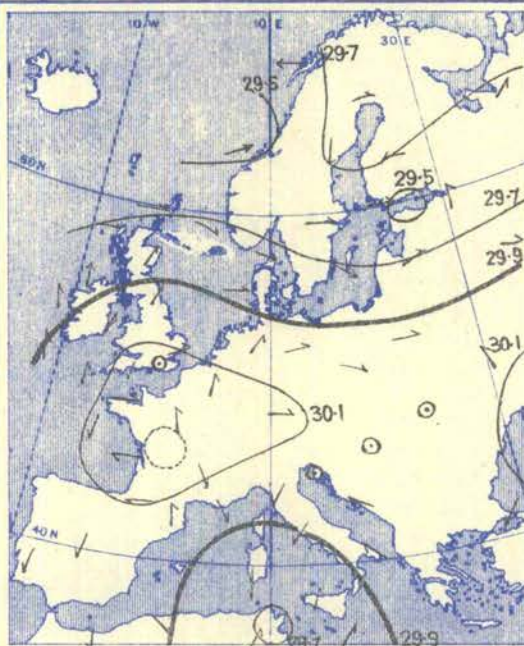
Temperature and Weather.

8 a.m.

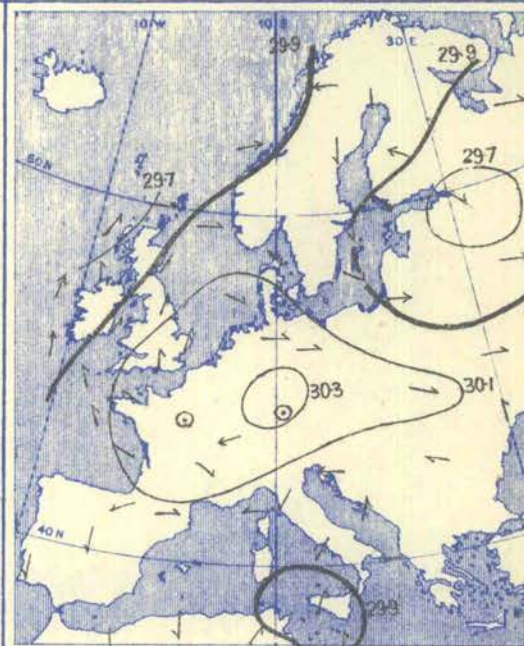


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over Germany, France, England, and northern Europe; slightly showery in the western parts of Ireland, as well as in the Baltic Provinces. Rain later at our western and northern stations, as well as in western Russia, and over Lapland—amounts large at stations in the last-named district. A small quantity reported over Holland.

Temperature fallen decidedly over Ireland and England. Morning readings still exceeding 50° over the greater part of the Mediterranean (70° at Malta), and exceeding 50° over our south-western counties; 51° at Holyhead. Lowest, (1) 6° Fahr. at Haparanda, 14° at Archangel, 39° at Moscow, more than 40° over the south of Russia; (2) 34° at Loughborough, 39° in London. Rising later to above 55° in many parts of our Islands, to 59° at Paris, and to 70° at Nice, and in the Azores.

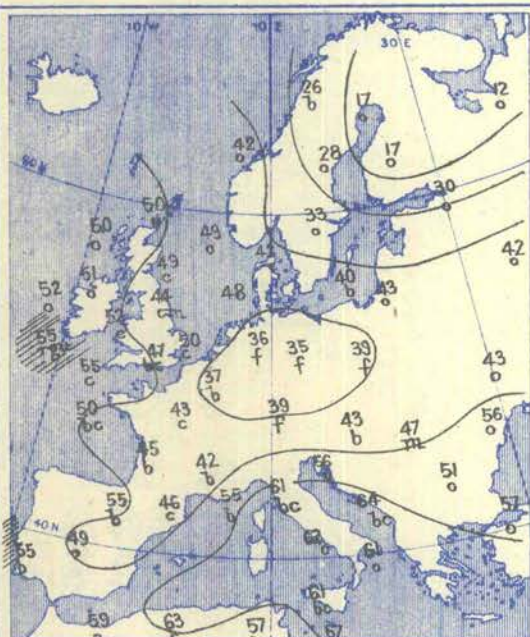
Wind light and mainly anticyclonic over eastern, central, and southern Europe; variable, Southerly to Westerly, over Ireland and Scotland; very variable over northern Europe. Freshening a little in the west later, and blowing strongly at Belmullet.

Barometer highest, (1) 30.2 ins. to 30.0 ins. in an anticyclone lying over France and England, and (2) over south-eastern Europe. Lowest, below 29.5 ins. off Christiansund, and also over the Gulf of Finland. Falling on our western coasts, and over the Azores later. Rising over Norway; falling over Russia.

Monday, 7th November.

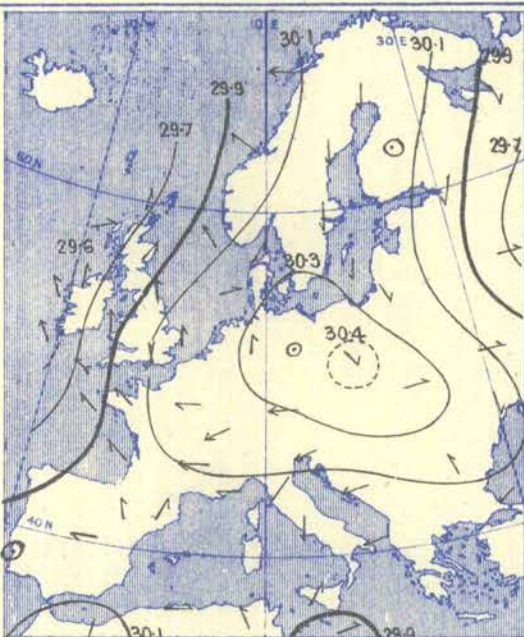
Temperature and Weather.

8 a.m.

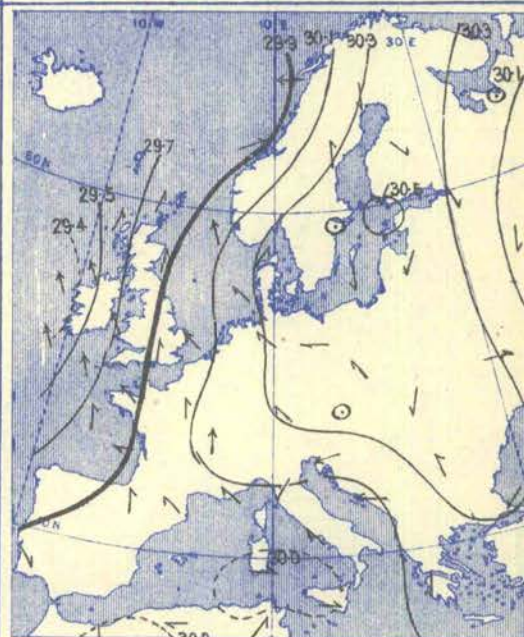


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over western and southern Europe generally, but dull in the extreme north and north-west of our Islands, and rainy in the south of Ireland. Dull in most of the northern, central, and eastern countries, with fog in many parts of Denmark, Germany, the Netherlands, and the north-east of France, and rain at Nicolaieff. Rain falling later on our west and south-west coasts, and at Brest, but amounts not very large. Fog or haze reported in a few places.

Temperature risen somewhat over the United Kingdom; fallen over central Europe. Morning readings highest, 67° at Malta, 63° at Algiers, 62° at Barcelona and Naples, and exceeding 50° at nearly all of our Atlantic and Channel stations. Lowest, 12° at Archangel, 17° at Haparanda and Kuopio, 22° at Helsingfors; 35° at Berlin, 37° at Wiesbaden, 39° at Munich and Breslau. Rising later to between 55° and 59° in many parts of our Islands, 63° at Rochefort, 68° at Biarritz, and 70° at Nice.

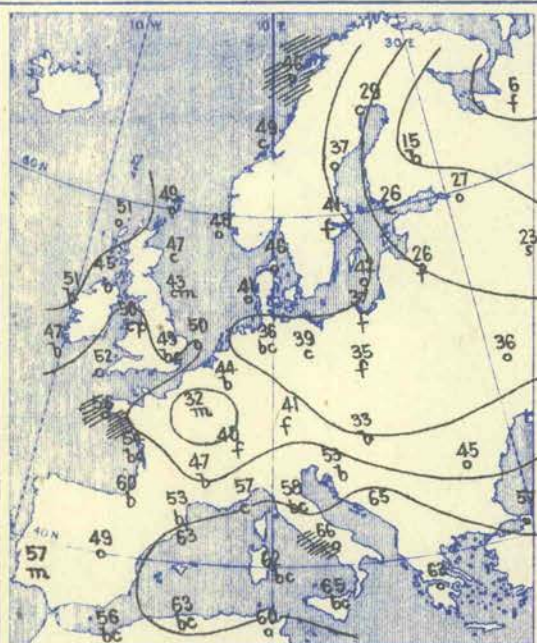
Wind (1) light to moderate and anticyclonic over the greater part of Continental Europe, (2) Southerly to South-Easterly over England, Ireland, and Norway, and blowing a moderate gale at many of the western stations; South-Westerly to Southerly in Scotland. Gale spreading Northwards later, but subsiding slowly on our extreme western coasts, and wind becoming more Southerly at the English stations.

Barometer highest, 30.4 ins. and more at Breslau and Cracow, and exceeding 30.1 ins. over the whole of central Europe, the Baltic, Sweden, the eastern parts of Norway, and the North Sea. Lowest, below 29.6 ins. off the western coasts of Ireland. Gradients steep over the United Kingdom, slight over central Europe, but moderate for Northerly winds over Russia. The depression over the Atlantic moving northwards later, and barometer beginning to rise at Valencia.

Tuesday, 8th November.

Temperature and Weather.

8 a.m.

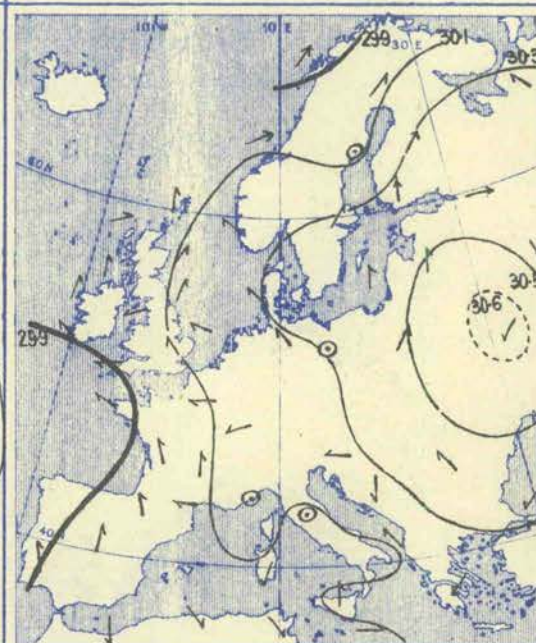


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair, but very foggy, over the greater part of central Europe, dull and misty in many parts of England, with slight rain at several stations; fine over Ireland, as well as over the south of France and the Mediterranean. Rain falling later over Lapland, the extreme south-west of our Islands, as well as in the Azores and at Lisbon. A great deal of mist over England.

Temperature falling decidedly over Russia, Poland, and Hungary. Morning readings highest, 65° to 60° at many of the Mediterranean stations; 57° at Lisbon, 56° at Brest, 51° at Belmullet and Stornoway, as well as at Dungeness and North Foreland. Lowest, 6° Fahr. at Archangel, 18° at Helsingfors, and much below the freezing point over the northern half of Russia generally; 39° at Berlin, 41° at Munich, and locally very low (32° Fahr.) at Paris. Falling decidedly over Scotland towards night.

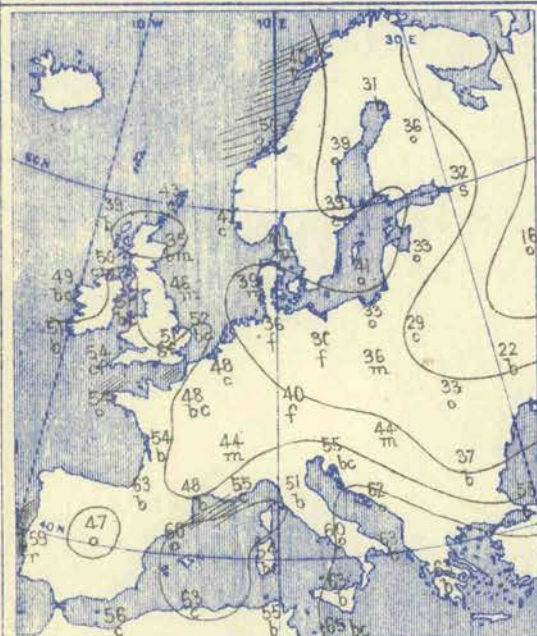
Wind light and anticyclonic over Russia and central Europe, Easterly to South-Easterly and moderate over France and the north of Italy; South-Easterly over England, Southerly over Ireland and Scotland. Falling light over the British Islands generally during the day, but increasing to a gale from South-West in the north-west of Norway.

Barometer highest, 30.6 ins. to 30.2 ins. in an anticyclone covering the eastern half of Europe. Lowest, 29.7 ins. and less off the north-west of Norway and the north-west of Ireland, and below 30.1 ins. over the Azores on the one hand and the Mediterranean on the other. Falling later both in the Azores and Portugal as well as in the west of Lapland.

Wednesday, 9th November.

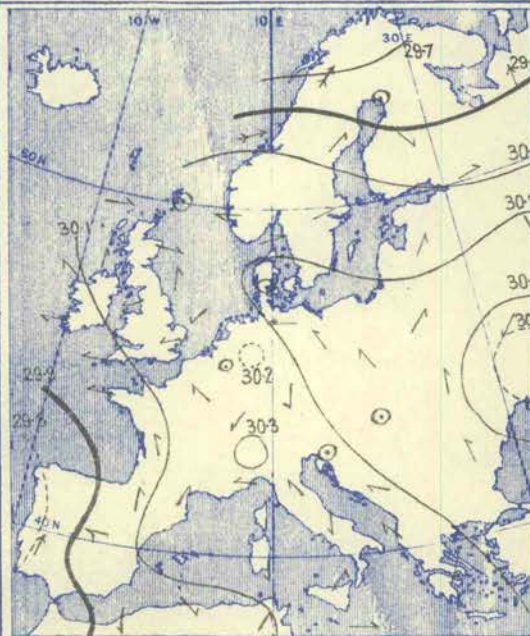
Temperature and Weather.

8 a.m.

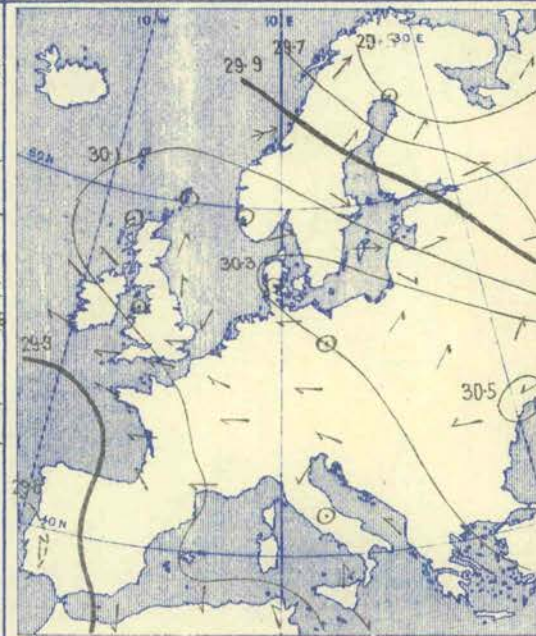


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair over the Mediterranean and south-eastern Europe, as well as at the Irish and Scotch stations, gloomy and foggy in many parts of Germany, France, and England; rainy in Portugal and the north-west of Norway. Rain considerable later at Bodø, but scarcely any reported elsewhere. Fog and mist continuing very prevalent, where reported in the morning.

Temperature changing very fitfully. Morning readings highest, (1) 65° at Malta, 63° at Algiers and Brindisi; (2) 63° at Biarritz, 56° at Prawle Point, and above 50° at nearly all stations on the western and southern coasts of the United Kingdom. Lowest, 16° at Moscow, 20° at Kharkov and Archangel, and much below the freezing point over Russia generally; 31° at Haparanda and also at Nairn, 35° at Aberdeen, 38° at York; rising later to 55° and more over Ireland and England to 60° in London, 63° at Jersey and Paris, and to 72° at Biarritz.

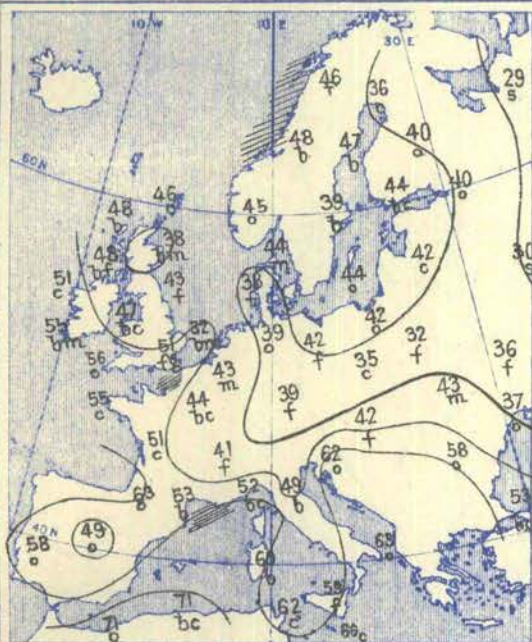
Wind (1) light from the Eastward over France and England, from South-East in Ireland, and from the Westward in Scotland, and blowing a gale from South-West in the north-west of Norway; (2) light and anticyclonic over the south-eastern, central, and eastern parts of Continental Europe. The gale in Norway subsiding later; no great change elsewhere.

Barometer highest, 30.6 ins. and more over the south of Russia, and exceeding 30.2 ins. over all the south-eastern and central countries, as well as the North Sea and the Baltic. Lowest, below 29.8 ins. over Portugal and the Azores, and below 29.7 ins. over Lapland. Falling slightly in most places later, but rising in the north-west of Norway.

Thursday, 10th November.

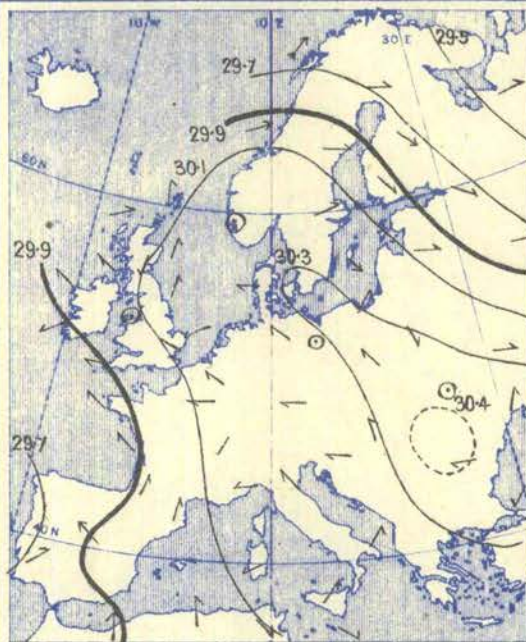
Temperature and Weather.

8 a.m.

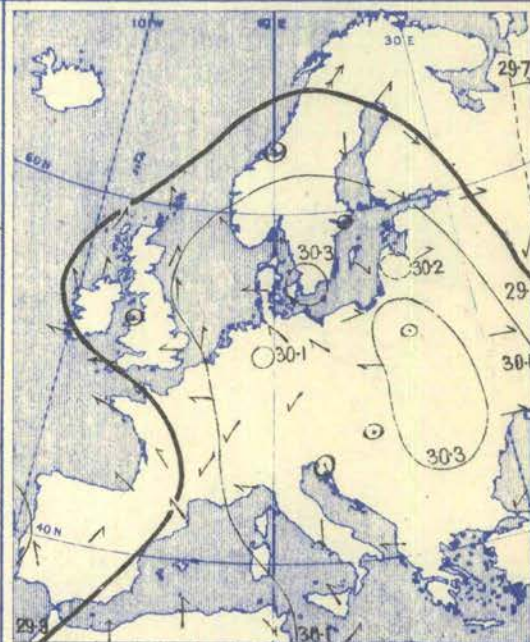


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still very foggy over central Europe and the greater part of England. Fair but hazy in France and Ireland, fine in Scotland; rain falling at Bodø, snow at Moscow. Considerable rain later at Bodø, and two-tenths of an inch at Biarritz; no important fall elsewhere.

Temperature in morning highest, 71° at Nemours, and ranging from 55° to 65° over the greater part of the Mediterranean; 68° at Biarritz, 56° at Scilly and Roche's Point, and 50° to 55° on our southern coasts generally. Lowest, (1) 29° at Archangel and Kharkov, 30° at Moscow, 36° at Kiev; (2) 32° at Warsaw, 34° at Cracow; (3) 33° at Nairn, 38° at Aberdeen, 41° at York. Rising later to between 58° and 61° over Ireland and England to 61° at Brussels, 65° at Paris, and 72° at Biarritz.

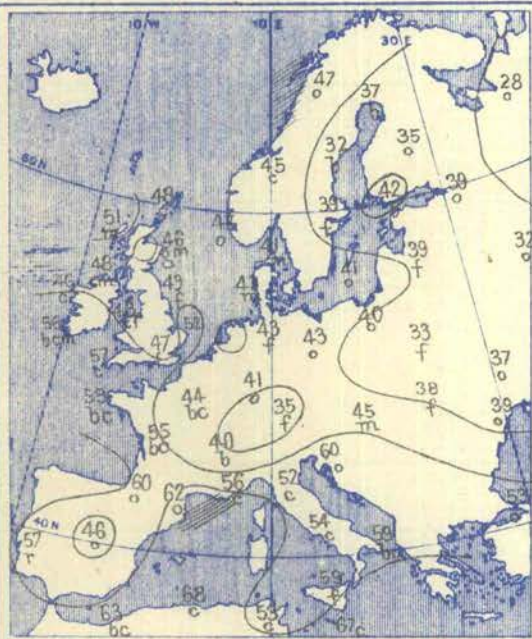
Wind (1) very light and anticyclonic over central and eastern Europe, as well as over the North Sea and Denmark; (2) South-Easterly to Easterly over the Atlantic and Channel shores, both of Continental Europe and our Islands; Southerly and South-Westerly over Scotland; (3) South-Westerly and strong in the north-west of Norway; North-Westerly to Westerly over Finland and Russia.

Barometer highest, 30.4 ins. and more over Hungary, and exceeding 30.1 ins. all over south-eastern and central Europe, the Baltic, and the North Sea. Lowest, below 29.7 ins. over Portugal on the one hand, and over Lapland on the other. Falling unsteadily over our Islands later, but no decided change reported.

Friday, 11th November.

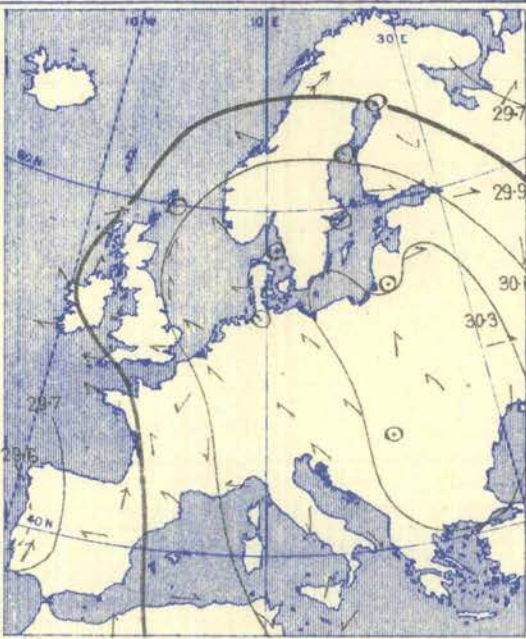
Temperature and Weather.

8 a.m.

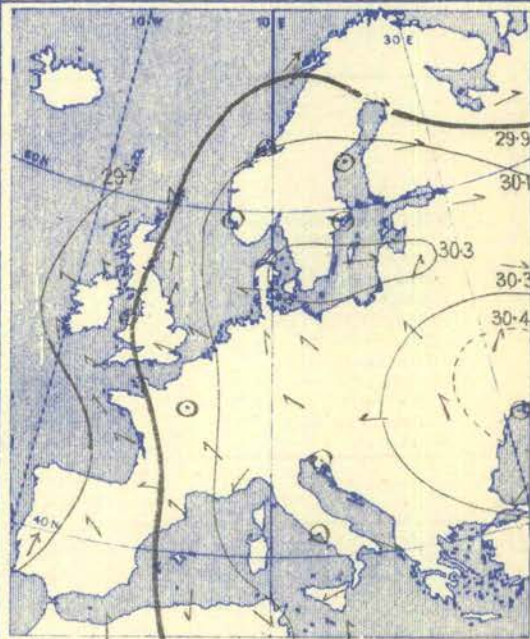


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning remaining foggy over central Europe and the greater part of England, but clearer in Ireland and Scotland than of late, as well as in the extreme north of Europe. Considerable rain later at Bodø, in the west of Ireland and at Lisbon, and no less than 2.09 ins. at Perpignan in a severe thunderstorm; fog continuing at the English stations.

Temperature rising slightly in the west and north of our Islands, changing irregularly elsewhere. Morning readings highest, 68° at Algiers, 67° at Malta, 60° at Biarritz, 57° at Scilly, and above 50° on our southern coasts generally. Lowest, 28° at Archangel, 32° at Moscow, and below 40° over eastern and northern Europe generally; rising later to 60° or more at some stations in the south and south-west of England, to 64° at Paris and Nice, and to 66° at Perpignan. Maxima slightly exceeding 50° over Scotland and our northern stations generally.

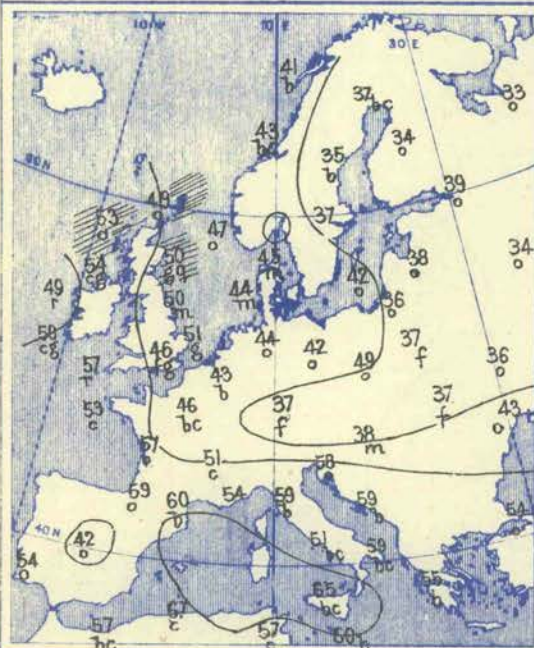
Wind light to fresh in force; anticyclonic over central Europe, principally Easterly to Southerly at the southern stations in western Europe and over England, South-Easterly in Ireland, Southerly to South-Westerly in Scotland. The South-Westerly gale in the north-west of Norway died down. No decided change later.

Barometer highest, 30.4 ins. to 30.1 ins. over central Europe, the Baltic, the south of Scandinavia and the North Sea. Lowest, below 29.6 ins. off the Portuguese coast, and below 29.7 ins. over the White Sea. Falling steadily over our Islands later, but beginning to rise over Portugal.

Saturday, 12th November.

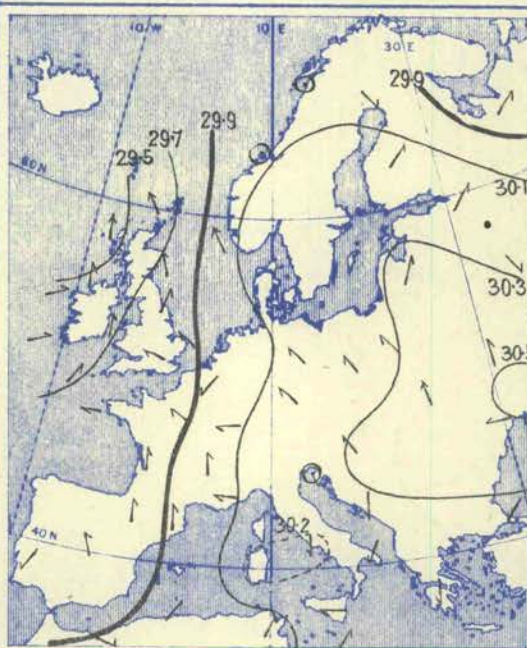
Temperature and Weather.

8 a.m.

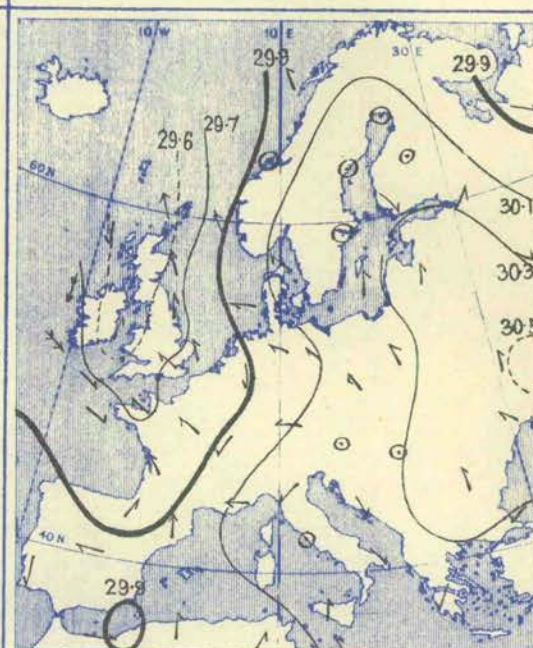


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still foggy in central Europe and the eastern part of England, overcast and rainy at the western and northern stations, unsettled generally. A good deal of rain falling in most places, the greatest amount being 0.6 ins. at Pembroke and 0.8 ins. at Behmullet, and thunder occurring at Lyons.

Temperature rising generally, most in Scotland but inclined to fall again at Valencia. Morning readings ranging from 67° at Algiers, 60° at Perpignan and 57° in the Scilly Islands, to 41° at Leith and 49° at Oxford, but rising to above 50° in the north to 55° in Ireland, and to 60° or more at Paris and over central France as a maximum.

Wind (1) still South-Easterly to Easterly over the Channel and England, Southerly at many of our western and northern stations, but South-Westerly in the west of Ireland; (2) light and anticyclonic over south-eastern and central Europe. Shifting abruptly to the Northward and North-Westward in Ireland later and blowing a hard gale in the far west.

Barometer highest, 30.5 ins. and more to 30.1 ins. over eastern and central Europe. Lowest, 29.5 ins. and less off our extreme north-west coasts. A "V"-shaped depression coming over our western districts later, and barometer rising in the west. Rise spreading eastwards rapidly.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 266.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	14.7	?	26	?	WESTBOURNE (Emsworth)	19.8*	+3.2	31*	+6
STRATHPEFFER SPA	25.5	+11.5	45	+23	WATERGATE (Emsworth)	17.1	?	27	?
EDINBURGH	2.1	-12.9	4	-19	BRIGHTON	28.7	+8.7	46	+16
MORPETH	8.3	?	14	?	EASTBOURNE	23.9	+6.4	38	+12
NEWCASTLE-ON-TYNE	4.0	?	7	?	VENTNOR HOSPITAL	22.5	?	36	?
OSWALDKIRK (Yorkshire)	10.2	-2.8	17	-4	SOUTHPORT	14.3	?	23	?
HOLLESLEY BAY	33.5	?	53	?	COLWYN BAY	28.9	?	47	?
SHEFFIELD	6.7	?	11	?	TENBY	18.4	+0.0	29	+2
WORKSOP	6.6	-6.8	11	-9	NEWQUAY	7.9*	-0.9	12*	-14
THURCASTON (Leicestershire)	9.8	-5.2	16	-8	TORQUAY	33.8*	+16.2	52*	+26
PLUMSTEAD COMMON	21.0	?	33	?					
MARGATE	29.5	+12.3	47	+20					

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.)									Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the week.			Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (In Day-Degrees).		Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.	
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.								
Week ending Oct. 15th, 1898	Churchstoke	57	33	53.2	39.6	46.2	- 1.6	39	7	5	Inches. 0.73	Inches. - 0.05	12.1	- 10.4	16	- 14	
" " " 22nd, "	Oswaldkirk	—	—	—	—	—	—	—	—	—	—	—	18.1	- 3.9	24	- 4	
" " " " "	Scarborough	64	47	56.8	49.7	53.1	+ 5.5	78	0	5	2.34	+ 1.70	8.8	?	12	?	
" " " " "	Newquay	—	—	—	—	—	—	—	—	—	—	—	8.5	- 19.7	9	- 26	
" " " " "	Churchstoke	60	34	54.8	41.9	48.4	+ 4.4	45	0	7	0.88	+ 0.05	30.4	+ 12.7	47	+ 22	
" " " " "	Hereford	61	31	55.2	42.3	48.3	+ 3.9	48	0	5	0.21	- 0.37	—	—	—	—	
" " " " "	Oxford	—	—	—	—	—	—	—	—	—	—	—	30.8	+ 11.1	47	+ 19	

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.VOL. XV. No. 46.]
Third Series.

WEEK ENDING SATURDAY, NOVEMBER 19TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95. BRIGHT SUNSHINE.—The

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 272.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	60	31	51.2	39.8	45.5	4 above	Day-deg. 34	Day-deg. +15	Day-deg. 6	Day-deg. - 9	Day-deg. 2242	Day-deg. +328	Day-deg. 420	Day-deg. -274
	1. SCOTLAND, EAST	58	27	51.4	38.2	44.9	5 above	36	+16	11	- 8	2528	+228	461	-274
	2. ENGLAND, N.E.	60	27	52.5	43.4	48.0	6 above	42	+17	0	-12	2842	+345	337	-255
	3. ENGLAND, EAST	59	34	53.1	43.7	48.4	6 above	45	+16	0	-14	3182	+294	412	-257
	4. MIDLAND COUNTIES	59	30	51.7	41.7	46.8	5 above	35	+ 7	1	-15	3101	+242	419	-268
	5. ENGLAND SOUTH	60	31	54.2	44.3	49.3	5 above	51	+14	0	- 8	3528*	+380	234	-276
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	57	30	51.7	41.5	46.6	4 above	34	+ 9	1	-11	2758	+327	246	-268
	7. ENGLAND, N.W.	58	34	52.5	44.9	48.8	5 above	48	+19	0	- 9	3038*	+373	215	-277
	8. ENGLAND, S.W.	58	29	53.4	43.5	48.5	3 above	46	+ 6	0	- 5	3368	+405	205	-175
	9. IRELAND, NORTH	53	30	51.8	42.2	47.0	4 above	35	+ 8	0	-11	2891	+329	229	-205
	10. IRELAND, SOUTH	61	28	53.5	41.2	47.4	2 above	41	+ 4	2	- 6	3373	+459	167	-166
	-CHANNEL ISLANDS.	62	39	56.6	46.6	51.6	3 above	67	+10	0	- 1	4015	+600	55	- 94

DISTRICTS. (See p. 272.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	10ths of in. 4	10ths of in. 9 less	222	+ 9	Ins. 51.7	+ 9.1	11	0	20	0	1206	+169	29	+ 4
	1. SCOTLAND, EAST	1	1	6 less	173	- 2	25.0	- 2.8	12	0	22	0	1278	+ 51	31	+ 1
	2. ENGLAND, N.E.	3	2	4 less	151	-13	18.4	- 4.8	3	- 9	6	-16	1186	- 18	29	- 1
	3. ENGLAND, EAST	2	less than ½	6 less	132	-28	16.1	- 7.0	14	- 2	23	- 3	1482	- 9	36	0
	4. MIDLAND COUNTIES	2	1	6 less	138	-19	17.8	- 7.2	7	- 6	12	- 8	1329	+ 34	33	+ 1
	5. ENGLAND, SOUTH	2	less than ½	7 less	125	-28	16.5*	- 9.0	16	+ 2	27	+ 5	1474	- 11	37	- 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	4	9 less	193	+11	38.2	- 4.2	7	- 5	12	- 8	1280	+ 8	32	0
	7. ENGLAND, N.W.	3	3	5 less	169	- 1	29.8	- 0.9	8	- 3	14	- 5	1381	+108	34	+ 2
	8. ENGLAND, S.W.	3	2	9 less	156	-17	27.9	- 6.3	13	- 3	21	- 4	1628*	+ 48	40	+ 1
	9. IRELAND, NORTH	4	5	4 less	208	+11	31.8	- 1.2	8	- 7	14	-11	1250	+ 44	31	+ 2
	10. IRELAND, SOUTH	3	3	6 less	169	-10	32.6	- 1.2	13	- 3	22	- 5	1427	+ 56	35	+ 1
	- CHANNEL ISLANDS.	4	1	9 less	174	- 8	21.5	- 7.4	15	+ 1	24	+ 3	1900	+132	48	+ 3

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period was generally fair over the greater part of the Kingdom, but slight rainfall occasionally in the more western and north-western districts, and much damp mist or fog was experienced over England.

Temperature continued above the mean, the excess ranging from 2° in Ireland S. and 3° in England S.W. and the Channel Islands to 5° in Scotland E. and several parts of England, and to 6° in England N.E. and E. The highest of the maxima were recorded on rather irregular dates, and ranged from 62° in the Channel Islands, 61° in Ireland S., and 60° in Scotland N. and England N.E. and S. to 57° in Scotland W. The lowest of the minima were registered during the earlier days of the week, when they ranged from 27° in Scotland E. and England N.E. and 28° in Ireland S. to 34° in England E. and N.W., and to 39° in the Channel Islands.

Rainfall was less than the mean in all districts; over central, southern and eastern England and in the east of Scotland the fall was extremely slight.

Bright Sunshine was less than the normal in most parts of the Kingdom, but rather exceeded it in England S. and the Channel Islands, and equalled it in the north and east of

Scotland. The percentage of the possible duration ranged from 27 in England S., 24 in the Channel Islands, and 23 in England E. to 12 in the Midland Counties and Scotland W. and to 6 in England N.E.

Barometer and Wind.—At the commencement of the week a shallow depression was passing eastwards over England and the North Sea, but as the barometer had risen quickly in the west strong Northerly winds or gales set in on all our western coasts. By the 14th this disturbance had almost entirely dispersed and the distribution of pressure had become anticyclonic over all the more southern parts of the Kingdom. This high pressure system continued throughout the remainder of the period, but towards its close it gradually moved more to the eastward and north-eastward, and the weather on our western and north-western coasts was affected at times by depressions moving north-eastwards. Moderate South-Westerly and Southerly winds were consequently prevalent in the west and north, but in the south and south-east the wind, after being light and variable, finally shifted to East or North-East and increased to a moderate or fresh breeze.

II.—DATA from which the SUMMARY on page 271 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	52	40	50.1	42.7	46.4	+ 4.4	31	0	5	0.43	- 0.55	*	*	*	*
	Stornoway	54	34	50.9	40.3	45.6	+ 3.8	32	5	7	0.85	- 0.27	8.0	- 3.1	15	- 5
	Wick	55	33	51.6	41.0	46.3	+ 5.1	34	3	3	0.21	- 0.47	*	*	*	*
	Lairg	60	31	52.6	37.6	45.1	+ 5.2	40	12	4	0.11	- 0.69	*	*	*	*
	Glencarron	54	32	50.2	37.3	43.8	+ 3.8	32	13	4	0.49	- 1.77	*	*	*	*
	Fort Augustus	56	31	52.0	37.2	44.6	+ 3.3	38	13	2	0.06	- 0.98	9.2	+ 4.3	17	+ 9
1. SCOTLAND, E.	Fort William	54	37	51.1	42.5	46.8	+ 4.6	34	0	5	0.51	- 1.38	5.7	- 2.3	10	- 4
	Nairn	58	31	54.0	36.9	45.5	+ 5.2	46	14	1	0.04	- 0.46	*	*	*	*
	Aberdeen	53	36	49.9	40.4	45.2	+ 3.7	29	4	2	0.15	- 0.60	17.0	+ 2.2	31	+ 6
	Braemar	55	27	48.9	33.8	41.4	+ 3.7	19	34	0	—	- 0.86	17.2†	+10.2†	31†	+18†
	Ochertyre	58	34	53.6	39.4	46.5	+ 4.0	42	7	0	—	- 0.49	*	*	*	*
	Leith	58	34	53.6	39.4	46.5	+ 4.0	42	7	0	—	- 0.49	*	*	*	*
2. ENGLAND, N.E.	Marchmont	54	30	50.7	40.6	45.7	+ 5.7	32	4	3	0.13	- 0.69	6.8	- 0.7	12	-12
	Alnwick Castle	57	27	53.5	39.2	46.4	+ 4.7	43	8	4	0.21	- 0.54	*	*	*	*
	Durham	58	36	52.2	41.0	46.6	+ 5.6	36	3	3	0.16	- 0.49	7.1	- 6.0	12	-10
	Shields	60	40	52.4	43.3	47.9	+ 5.1	41	0	3	0.20	- 0.36	*	*	*	*
	Scarborough	55	41	52.7	44.5	48.6	+ 5.6	46	0	2	0.33	- 0.35	0.0	?	0	?
	York	54	42	52.1	45.3	48.7	+ 6.7	47	0	4	0.36	- 0.15	0.0	-10.7	0	-18
3. ENGLAND, E.	Spurn Head	54	45	51.9	47.3	49.6	+ 5.8	53	0	3	0.05	- 0.47	*	*	*	*
	Hillington	54	37	52.5	42.5	47.5	+ 5.5	39	0	2	0.05	- 0.57	10.9	- 2.3	18	- 4
	Yarmouth	54	43	51.9	46.6	49.3	+ 6.0	51	0	3	0.07	- 0.61	*	*	*	*
	Geldeston	56	38	53.3	44.1	48.7	+ 5.6	47	0	1	0.02	- 0.59	15.0	- 0.6	25	0
	Cambridge	59	38	54.9	44.1	49.5	+ 7.3	53	0	1	0.04	- 0.44	11.2	- 4.3	19	- 6
	Rothamsted	57	34	52.8	41.3	47.1	+ 5.2	39	2	2	0.04	- 0.61	13.2	- 1.8	22	- 3
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	53	35	50.9	43.6	47.3	+ 5.3	37	0	2	0.19	- 0.29	*	*	*	*
	Loughborough	59	31	52.3	41.4	46.9	+ 3.9	37	2	3	0.06	- 0.44	*	*	*	*
	Stamford (Duddington)	56	37	52.1	43.1	47.6	+ 5.4	39	0	1	0.06	- 0.59	*	*	*	*
	Cheadle	58	34	50.6	41.6	46.1	+ 5.1	30	1	2	0.08	- 0.62	*	*	*	*
	Shirley (near Solihull)	59	37	51.4	41.5	46.5	+ 4.5	34	1	3	0.11	?	*	*	*	*
	Churchstoke	56	33	50.6	40.8	45.7	+ 2.7	31	3	2	0.04	- 0.58	*	*	*	*
5. ENGLAND, S.	Hereford	58	30	52.4	40.3	46.4	+ 4.6	38	5	2	0.06	- 0.66	14.1	- 0.3	24	0
	Cirencester	58	34	53.6	41.6	47.6	+ 4.7	41	1	1	0.02	- 0.56	12.6	- 2.2	21	- 2
	Oxford	58	34	53.6	41.6	47.6	+ 4.7	41	1	1	0.02	- 0.56	12.6	- 2.2	21	- 2
	London	56	36	53.6	43.6	48.6	+ 4.3	46	0	1	0.05	- 0.47	6.5†	- 3.5†	11†	- 4†
	North Foreland	55	43	52.7	46.6	49.7	+ 4.9	54	0	3	0.06	?	*	*	*	*
	Cranley	59	31	55.5	41.6	48.6	+ 5.1	48	1	0	—	?	*	*	*	*
6. SCOTLAND, W.	Dungeness	60	36	55.3	44.4	49.9	+ 4.9	55	0	1	0.01	- 0.77	*	*	*	*
	Hastings (St. Leonards)	57	41	54.4	46.3	50.4	+ 5.5	59	0	2	0.04	- 0.74	20.0	+ 3.0	33	+ 5
	Southampton	58	34	55.0	43.6	49.3	+ 4.8	51	0	1	0.01	- 0.70	17.5	+ 0.3	29	+ 5
	Hurst Castle	58	39	54.6	44.1	49.4	+ 3.6	52	0	1	0.02	- 0.70	*	*	*	*
	Shaftesbury	55	41	52.3	44.4	48.4	+ 6.4	45	0	3	0.05	- 0.80	*	*	*	*
	Laudale (Loch Sunart)	57	35	53.2	41.9	47.6	+ 4.6	40	0	6	0.48	- 1.58	*	*	*	*
7. ENGLAND, N.W.	Glasgow	55	38	50.9	42.7	46.8	+ 5.4	34	0	3	0.22	- 0.67	0.3	- 7.7	1	-12
	Ardrossan	54	37	51.1	43.1	47.1	+ 3.8	36	0	4	0.33	- 0.55	*	*	*	*
	Glenlee	54	30	50.2	36.9	43.6	+ 2.6	33	14	5	0.42	- 1.06	*	*	*	*
	Douglas (Isle of Man)	57	35	53.0	43.0	48.0	+ 3.7	42	0	4	0.50	- 0.58	12.8	- 2.4	22	- 4
	Stonyhurst	53	37	50.7	44.4	47.6	+ 5.3	39	0	3	0.54	- 0.50	5.9	- 5.1	10	- 8
	Blackpool	57	34	53.1	44.0	48.6	+ 5.6	46	0	4	0.54	- 0.24	3.3	- 7.7	6	-12
8. ENGLAND, S.W.	Manchester (Prestwich)	54	36	51.5	43.7	47.6	+ 5.4	39	0	2	0.10	- 0.71	5.2	?	9	?
	Liverpool Obsy. (Bidston)	57	39	52.7	46.1	49.4	+ 5.6	52	0	2	0.10	- 0.57	*	*	*	*
	Llandudno	58	35	53.6	44.6	49.1	+ 3.8	50	0	3	0.22	- 0.58	14.6	+ 2.6	25	+ 5
	Holyhead	57	40	53.6	46.7	50.2	+ 4.0	57	0	5	0.45	- 0.46	*	*	*	*
	Llandovery	57	32	51.9	40.1	46.0	+ 3.0	36	5	4	0.28	- 0.91	*	*	*	*
	Pembroke	57	40	53.7	47.0	50.4	+ 3.4	59	0	4	0.37	- 0.58	5.7	- 9.3	10	-14
9. IRELAND N.	Clifton	57	35	52.9	42.9	47.9	+ 4.8	41	0	1	0.02	- 0.78	*	*	*	*
	Arlington (N. Devon)	56	34	51.7	40.7	46.2	+ 2.6	35	4	3	0.29	- 1.14	*	*	*	*
	Cullompton	58	29	53.5	39.8	46.7	+ 2.9	42	6	1	0.01	- 0.81	15.9	+ 2.3	26	+ 6
	Falmouth	58	42	54.4	47.3	50.9	+ 3.1	62	0	3	0.09	- 1.16	15.4	- 2.4	25	- 3
	Plymouth	57	37	54.4	44.6	49.5	+ 3.0	53	0	1	0.02	- 0.88	17.9	+ 2.6	29	+ 6
	Prawle Point	57	40	54.7	45.7	50.2	+ 3.5	57	0	3	0.11	- 0.61	*	*	*	*
10. IRELAND S.	Malin Head	56	39	52.0	44.3	48.2	+ 3.9	43	0	4	0.52	?	*	*	*	*
	Londonderry	57	36	52.1	42.1	47.1	+ 4.2	36	0	4	0.61	- 0.37	*	*	*	*
	Edenfel (Omagh)	55	30	49.9	39.6	44.8	+ 3.8	30	7	3	0.38	- 0.42	*	*	*	*
	Belmullet	57	36	53.3	43.1	48.2	+ 3.0	43	0	7	0.98	- 0.40	*	*	*	*
	Markree Castle	58	33	51.6	41.3	46.5	+ 3.9	34	2	4	0.34	- 0.60	8.4	- 6.4	14	-10
	Armagh	57	35	51.6	41.3	46.5	+ 4.5	34	2	3	0.36	- 0.30	8.1	- 5.9	14	-11
CHANNEL ISLANDS	Donaghadee	57	35	52.1	43.9	48.0	+ 4.0	42	0	4	0.48	- 0.22	*	*	*	*
	Dublin	59	32	53.0	40.9	47.0	+ 2.0	40	3	2	0.09	- 0.48	12.1	- 5.5	21	- 7
	Parsonstown	59	32	52.7	39.7	46.2	+ 3.2	39	6	3	0.40	- 0.28	16.5	+ 1.3	28	+ 2
	Kilkenny	60	28	52.4	38.1	45.3	+ 1.2	39	11	2	0.16	- 0.50	*	*	*	*
	Roche's Point	57	36	54.1	45.6	49.9	+ 3.4	55	0	4	0.12	- 1.00	*	*	*	*
	Valencia	57	36	54.3	43.7	49.0	+ 1.7	49	0	5	0.78	- 0.52	9.6	- 6.5	16	-10
CHANNEL ISLANDS	Killarney	61	32	54.5	39.7	47.1	+ 1.9	45	6	3	0.14	?	*	*	*	*
	Foynes	60	33	53.7	40.6	47.2	+ 2.4	42	4	2	0.24	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	59	44	57.1	48.9	53.0	+ 3.5	77	0	4	0.13	- 0.77	9.4	?	15	?
	Jersey	62	39	56.0	44.3	50.2	+ 2.0	57	0	4	0.06	- 0.92	18.1	0.0	29	0

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 13th November.

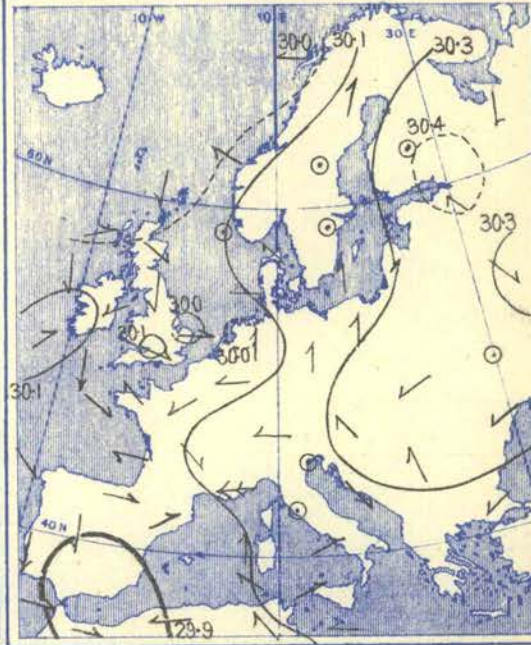
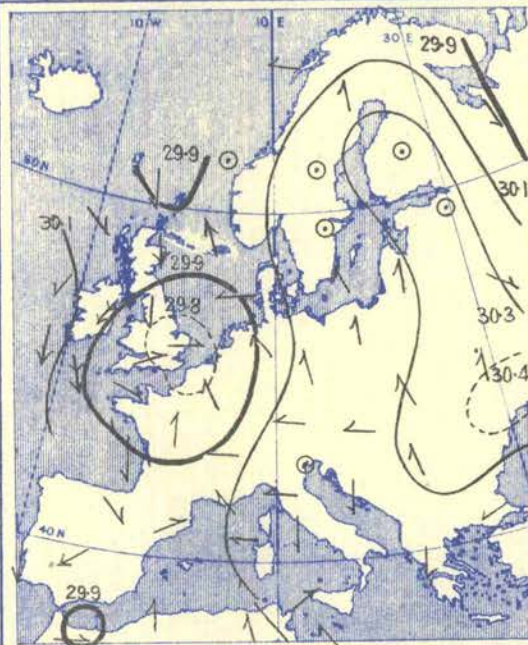
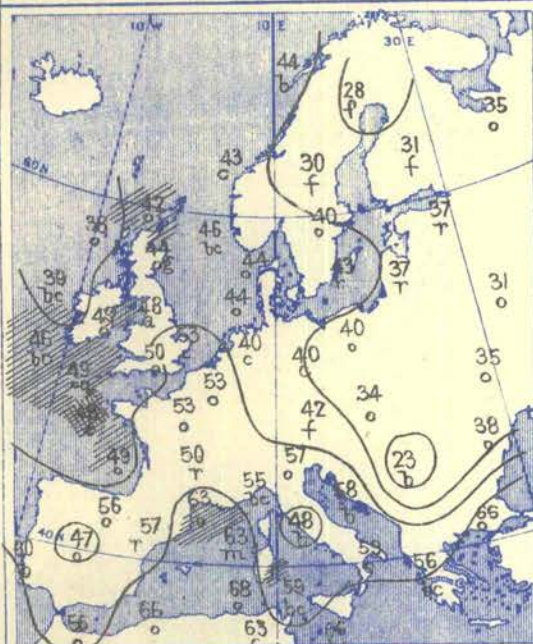
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine over the greater part of our Islands, but dull and foggy at a few isolated places in Great Britain, with rain at Penbroke. Cloudy or dull over the Continent as a whole, with fog at several of the northern and central stations, and rain in the extreme south of France and north of Spain, as well as at the Helder, Riga, and St. Petersburg. Fine in Greece and Italy. Heavy rain falling later in the south of France—as much as 3.7 ins. at Marseilles, 2.5 ins. at Cette, and 2.4 ins. at Gap; thunderstorms occurring at Nice and Perpignan.

Temperature fallen generally, but risen over the Netherlands, western Germany, and central France. Morning readings highest, 63° at Cagliari, and 65° at Malta, Algiers, and Constantinople; above 55° over southern Europe generally. Lowest, 23° at Hermanstadt, 28° at Uleaborg and Nicolaieff, and 30° at Haparanda and Hernösand. Rising during day to between 50° and 55° in many parts of our Islands, and to 59° at Dungeness; exceeding 60° over southern Europe generally, and exceeding 70° at some of the Mediterranean stations. Ground frost occurring in many parts of our Islands at night.

Wind strong to a gale from the Northward on our western coasts, and moderate to fresh from the same quarter, or from North-West over the northern parts of Great Britain, and also in the west of France; light from the Westward over eastern and central England. Light to moderate from the Southward or South-Eastward over the greater part of northern and central Europe, but calm in Finland and North-West over northern Russia. Variable over Italy and the southern parts of France and Russia; Northerly in Greece. Subsiding quickly later on our western coasts; no important change occurring elsewhere.

Barometer highest, 30.4 ins. and upwards in the south of Russia; 30.1 ins. and upwards in an anticyclone embracing all the more eastern parts of Europe, and also in another system extending from the Atlantic over the west of Ireland. Lowest, 29.8 ins. and less in a depression over Holland and the eastern and south-eastern parts of England. Depression moving eastwards later and filling up; barometer rising in most parts of western Europe.

Monday, 14th November.

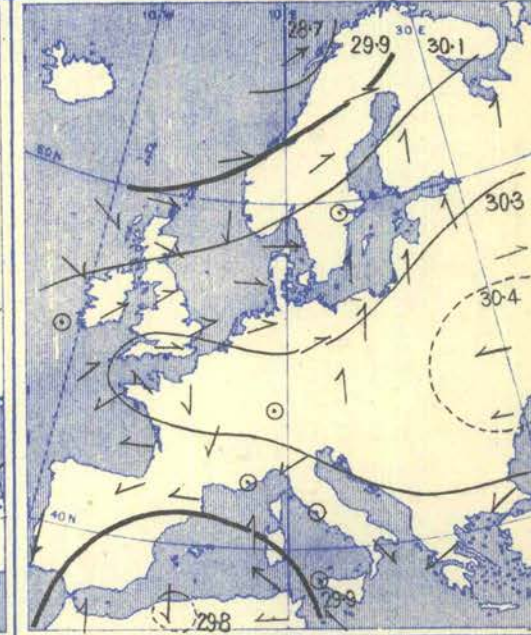
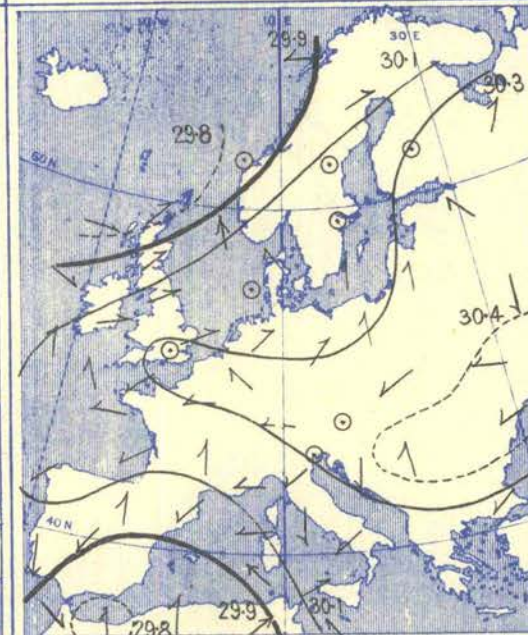
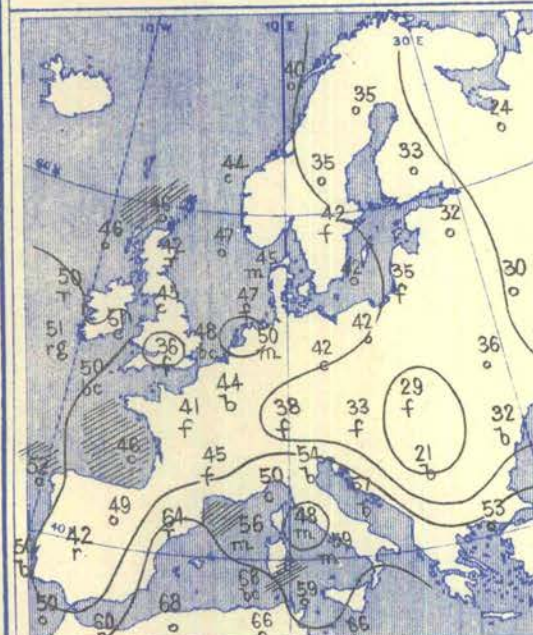
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine over the greater part of England, but foggy in the south-eastern districts; dull in Ireland and Scotland, with rain in several places. Cloudy over the Continent generally, with fog at many of the northern and central stations, rain at Copenhagen, and also at Madrid and Barcelona, and thunder at Perpignan. Fine in the extreme south of Russia, as well as over the northern parts of Italy and the Adriatic. Rain falling later in the west and north of our Islands generally, as well as in the west of Norway, and a considerable quantity (1.1 ins.) reported at Perpignan. Thunderstorm, with heavy rain, occurring at Algiers, and snow falling at Archangel.

Temperature fallen generally, but risen in Scandinavia and Denmark. Morning readings highest, 70° at Stax, 68° at Cagliari and Algiers, and 66° at Malta and La Calle; above 60° at many of the Mediterranean stations. Lowest, (1) 21° at Hermanstadt, 24° at Archangel, 28° at Odessa, and 29° at Lemberg; (2) 34° at Oxford, and 35° in London. Rising during day to 50° and upwards at several of our northern stations, to between 55° and 60° in the south of England, and to 62° at Jersey. Exceeding 60° over southern Europe generally.

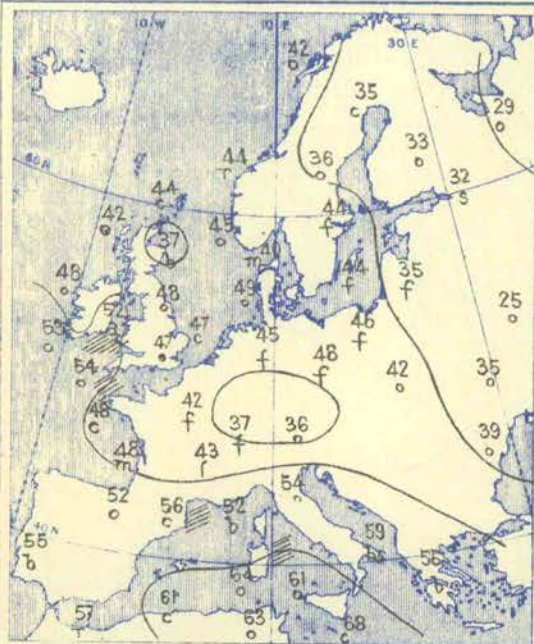
Wind light to moderate from the South or South-West over the greater part of our Islands, and from the South-East in the south of Norway; calm or variable over Sweden and northern Russia. Easterly or North-Easterly over France, and North-Easterly or Northerly over Italy and the Spanish Peninsula. Calm or light from South-East in Austria. Subsequently veering to the North-Westward on our own extreme north-western coasts; no important change occurring elsewhere.

Barometer highest, 30.4 ins. and upwards over Austria and the south of Russia; 30.1 ins. and upwards in an anticyclone embracing all but the extreme north-western and south-western parts of Europe. Lowest, 29.8 ins. and less in two depressions—one lying off the north of Scotland and the other over Morocco. Former disturbance subsequently moving north-eastwards and latter eastwards over Algeria; barometer rising in all parts of western Europe.

Tuesday, 15th November.

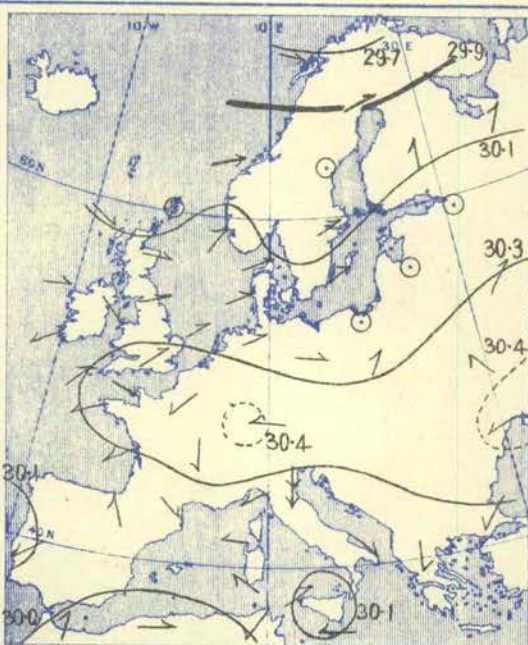
Temperature and Weather.

8 a.m.

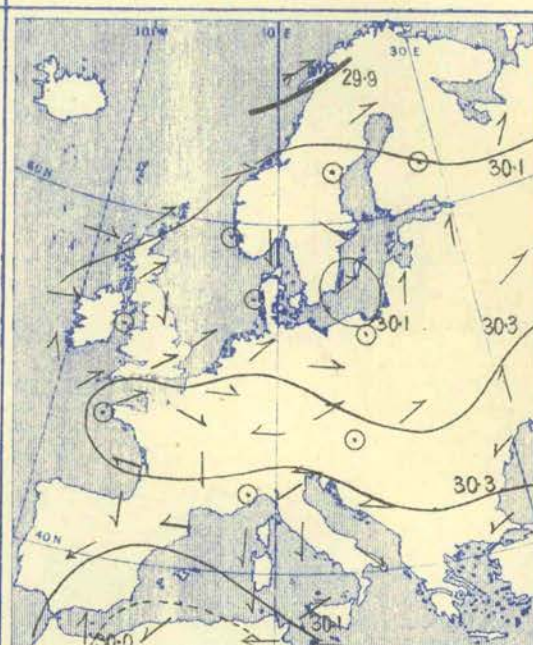


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over Europe as a whole, with mist or fog in many places; rain falling in isolated parts of England and Wales, as well as at Christiansund and Hango, and snow at St. Petersburg. Fine in the north-east of Scotland, as well as in Greece, Portugal, and the south of France. Rain falling later over the whole of England, Ireland, and the west and north of Scotland, as well as in Scandinavia, Germany, and the Netherlands, but amounts mostly slight; snow reported at Archangel. Thunderstorms occurring at Aumale.

Temperature fallen in Ireland and Scotland, risen over England and the neighbouring parts of the Continent. Morning readings highest, 68° at Malta, 65° at Sanguinaire, and 64° at Cagliari; above 60° at several of the Mediterranean stations. Lowest, 25° at Moscow and Warsaw, 26° at Kharkov, and 29° at Archangel; lowest in our Islands, 37° at Aberdeen and 38° at Nairn. Rising during day to 50° and upwards in nearly all parts of the United Kingdom, and to 55° and upwards on our extreme southern coasts, exceeding 60° over southern Europe generally, and exceeding 70° at some of the Mediterranean stations.

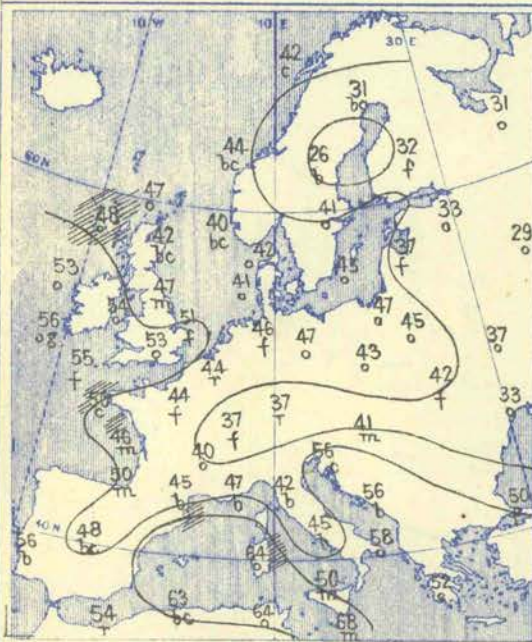
Wind light from between South-West and North-West in our Islands; South-Westerly or Westerly in Scandinavia, Denmark, and north Germany, and strong in force at Bodø; Southerly over Finland. Light or moderate from the Eastward or North-Eastward over France and the Spanish Peninsula; Northerly in Italy and Greece. Subsequently backing to the Southward or South-Eastward in Ireland, no important change occurring elsewhere.

Barometer highest, 30.4 ins. and upwards in the south of Russia and also in the south-west of Germany; 30.1 ins. and upwards in an anticyclone embracing all but the extreme northern parts of Europe. Lowest, 29.7 ins. and less in a depression over the north of Norway. Barometer falling over western Europe during day and anticyclone beginning to give way on its western side.

Wednesday, 16th November.

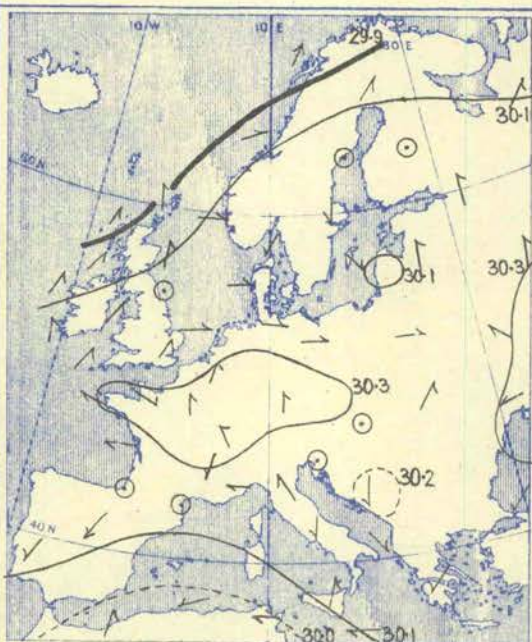
Temperature and Weather.

8 a.m.

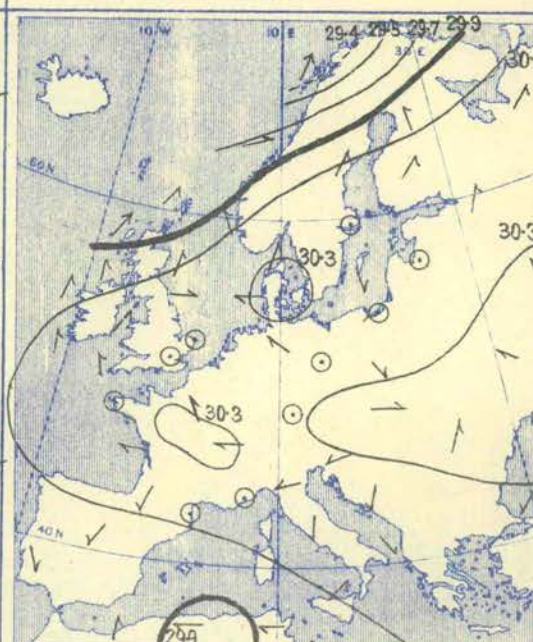


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over western, central and eastern Europe generally, with mist or fog in many places and slight rain at some of the English stations; rain falling also at Helsingfors, Memel, Cracow and Munich. Fine over the north-east of Scotland and the greater part of Scandinavia, as well as in southern Europe generally. Slight rain falling later over nearly the whole of Ireland and the west and north of England, as well as in the Hebrides, and somewhat larger quantities over Germany and the Netherlands.

Temperature risen a little in our Islands, but fallen at most of the Continental stations. Morning readings highest, 68° at Malta and 64° at Sanguinaire, Cagliari, La Calle and Tunis; above 60° at several of the Mediterranean stations and slightly above 55° on some parts of our own south-west coasts. Lowest, 24° at Kharkov, 26° at Hernösand, and 29° at Moscow. Rising during day to 55° and upwards in nearly all parts of the United Kingdom, and to 59° at Loughborough, Parsonstown, Scilly, and Cambridge; exceeding 65° over the Spanish Peninsula and the southern parts of France and Italy, and reaching 84° at Sanguinaire.

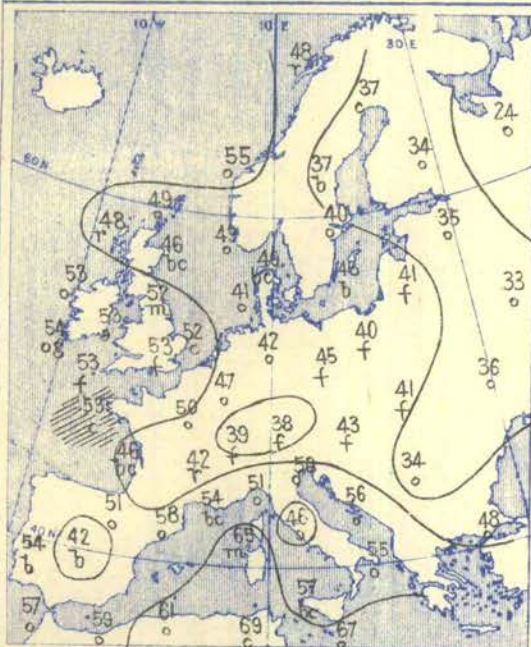
Wind South-Westerly (South to West) over our Islands and the northern parts of Scandinavia; light in force generally, but fresh on some parts of our extreme north-west coasts and strong at Bodø. Light from the Northward in the south of Sweden, and from the Westward in Germany and Austria; Southerly at most of the Russian stations. Easterly or North-Easterly over the Spanish Peninsula and the west and south of France; Northerly in Italy and Greece. No important change occurring over western Europe during day.

Barometer highest, 30.4 ins. and upwards over the south of Russia; 30.3 ins. and upwards over south Germany and the central and northern parts of France; 30.1 ins. and upwards in an anticyclone embracing all but the extreme northern and north-western parts of Europe. Lowest, 29.9 ins. and less in a large area lying to the northward and north-westward of our Islands; secondary hollow reported over the north-east of England. Secondary passing on later to the North Sea, but no decided change occurring over western Europe generally.

Thursday, 17th November.

Temperature and Weather.

8 a.m.

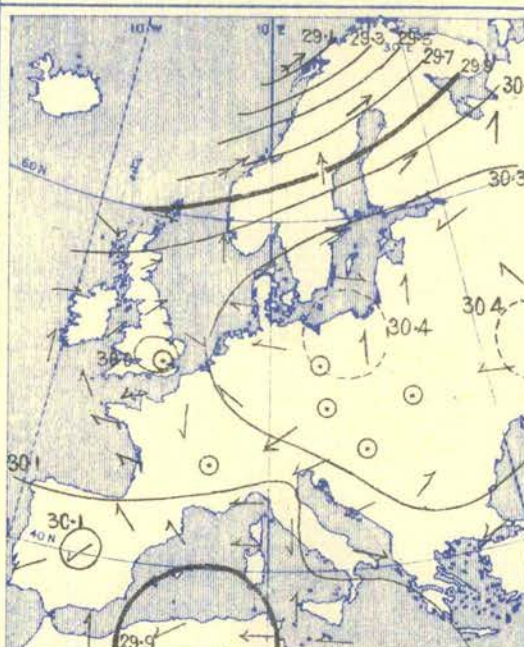


Weather in morning dull over the greater parts of our Islands and the Continent, with fog in many of the western and central countries, and rain at Bodö and Stornoway, as well as at Lyons. Fine at some stations in the north of England, as well as in the north-east of Scotland and in Sweden; fine also in Spain and the extreme south of France. Slight rain falling during day at several of our western and extreme northern stations, and somewhat larger amounts in the west of Norway and the south of France.

Temperature risen in the northern parts of our Islands and the Continent, but changed rather irregularly elsewhere. Morning readings highest, 69° at La Calle, 67° at Malta and Tunis, and 65° at Sanguinaire; above 55° at the Mediterranean and Adriatic stations generally; above 50° in most parts of our Islands, and as high as 56° at Leith. Lowest, 24° at Archangel and Kharkov, 33° at Moscow, and 34° at Kuopio and Hermanstadt. Rising during day to 55° and upwards in many parts of the United Kingdom, and to 60° at Shields; exceeding 60° over southern Europe generally, and reaching 70° at Palermo and Malta, and 75° at Sanguinaire.

Barometer and Wind.

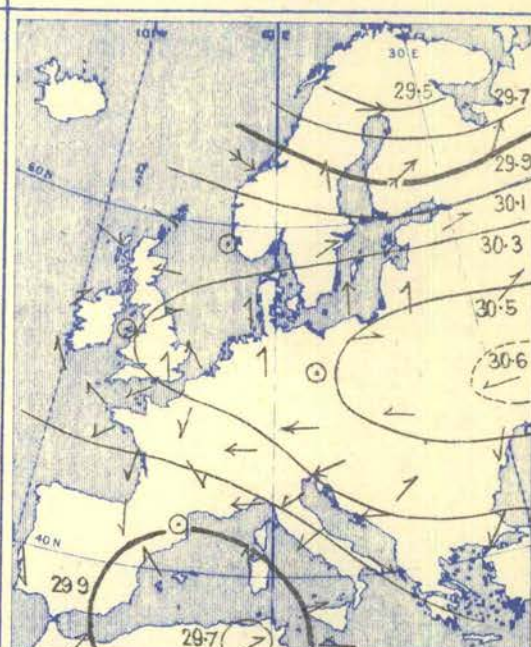
8 a.m.



Wind light from the Southward or South-Westward over the greater part of our Islands, and strong from the same quarters in Scandinavia, with a strong gale on the west coast of Norway. Variable in the extreme south of England, and light to moderate from the Eastward or North-Eastward over western Germany, Belgium, France, the Spanish Peninsula, and the northern parts of Italy and the Adriatic. Calm in Austria; variable over southern Italy, light from the Eastward over the central and southern parts of Russia. No important change occurring over western Europe during day, but Westerly and South-Westerly gales setting in over Finland in evening.

Barometer highest, 30.57 ins. at Kharkov, 30.4 ins. and upwards over the whole of eastern Germany and the southern parts of Russia; 30.1 ins. and upwards in an anticyclone embracing all but the northern and extreme southern parts of Europe. Lowest, 29.2 ins. and less in a large and deep depression with its centre off the northern parts of the Norwegian coasts; 29.0 ins. and less in a shallow disturbance over Algeria. Norwegian depression subsequently moving eastwards, and barometer rising quickly in its rear.

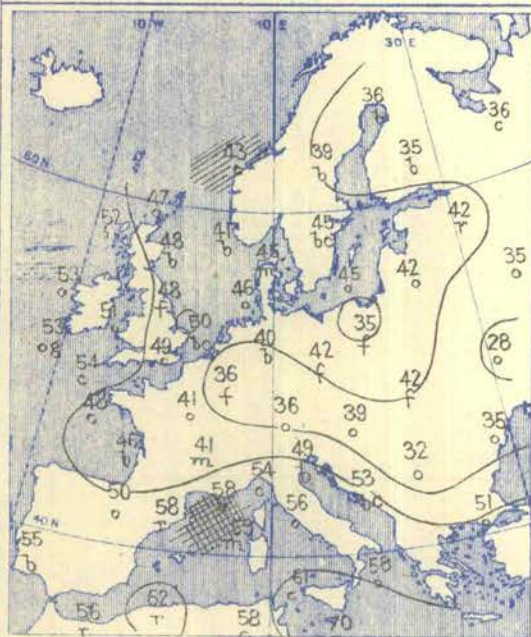
6 p.m.



Friday, 18th November.

Temperature and Weather.

8 a.m.

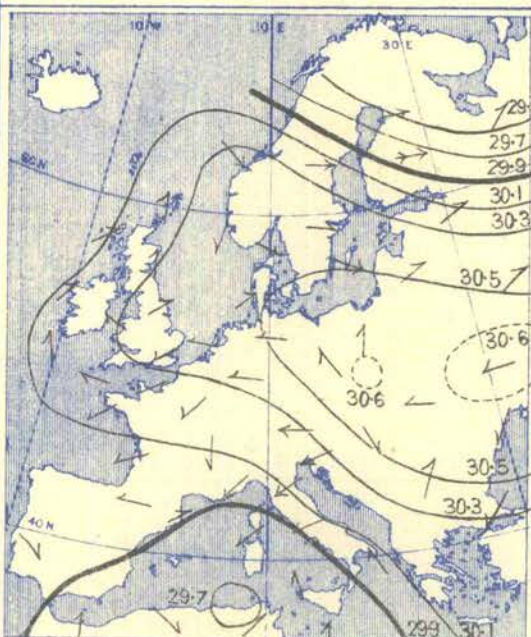


Weather in morning fair or fine over the south-eastern parts of England, as well as in the north-east of Scotland, and most parts of Scandinavia and Finland. Cloudy or dull elsewhere, with mist or fog in many places, and rain at Perpignan and Barcelona, as well as at St. Petersburg. Slight rain falling later on our own extreme north-west coasts; no important change occurring elsewhere.

Temperature fallen over England and the western and central parts of the Continent generally but risen elsewhere. Morning readings highest, 70° at Malta, 62° at Algiers, 61° at Palermo, and 59° at Sanguinaire; above 55° at most of the Mediterranean stations, and very little below it in the extreme south-west of our Islands. Lowest, 26° at Kharkov, 28° at Kiev, 32° at Hermanstadt, and 33° at Odessa; below 40° in many parts of eastern and central Europe. Rising later to 55° and upwards at many of our own western and northern stations, and also in the west and south of France; exceeding 60° in most parts of southern Europe, and reaching 75° at Palermo. Frost occurring over central England at night.

Barometer and Wind.

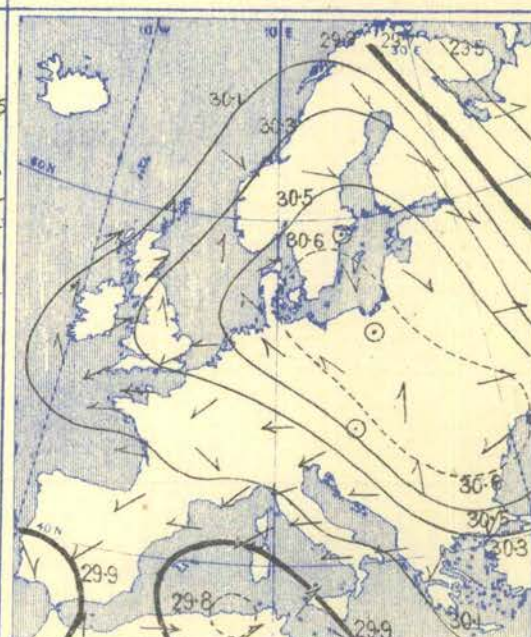
8 a.m.



Wind Easterly (North-East to South-East) over the south of England and the central and southern parts of the Continent generally; light or moderate in force in most places, but strong to a gale over northern Italy and the extreme south of France. Light to moderate from the Southward or South-Westward over the northern parts of our Islands. Westerly (South-West to North-West) over Scandinavia and northern Russia, with a strong gale at Kuopio. Subsequently increasing to a strong breeze from the South-Westward in the Hebrides, and shifting to the South-Eastward in the west of Norway.

Barometer highest, 30.6 ins. and upwards in the south of Russia; 30.2 ins. and upwards in an anticyclone embracing all but the extreme northern and southern parts of Europe. Lowest, 29.4 ins. and less in a deep depression passing eastwards across the Kola Peninsula; 29.3 ins. in a shallower disturbance over Tunis and the neighbouring parts of the Mediterranean. Northern depression continuing to move eastwards during day; new disturbance beginning to appear later to the north-westward of our Islands.

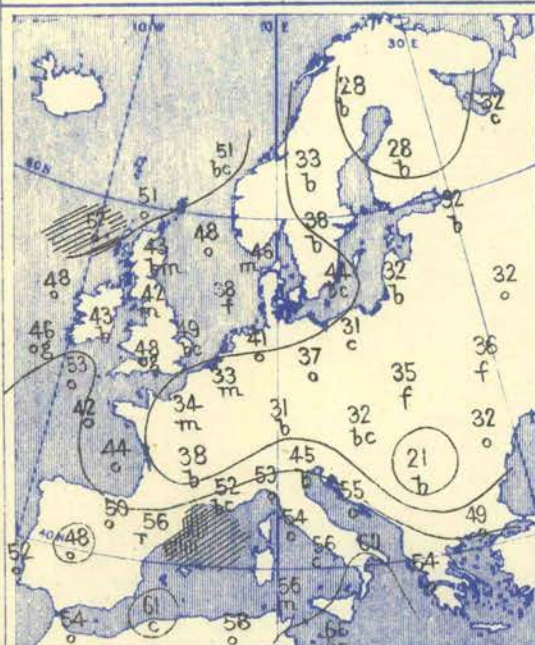
6 p.m.



Saturday, 19th November.

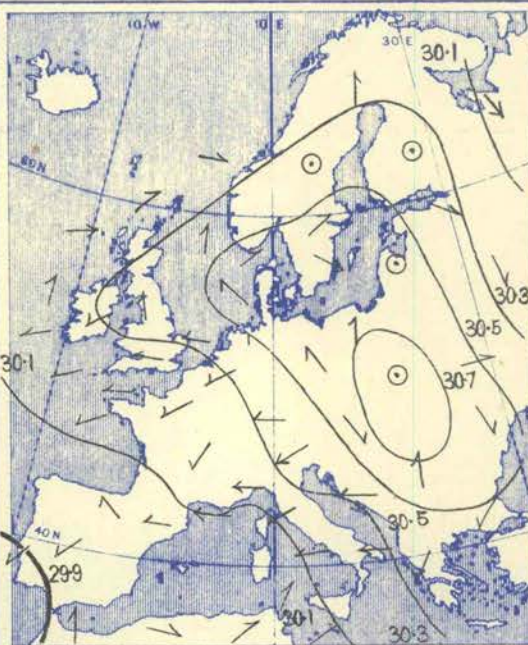
Temperature and Weather.

8 a.m.

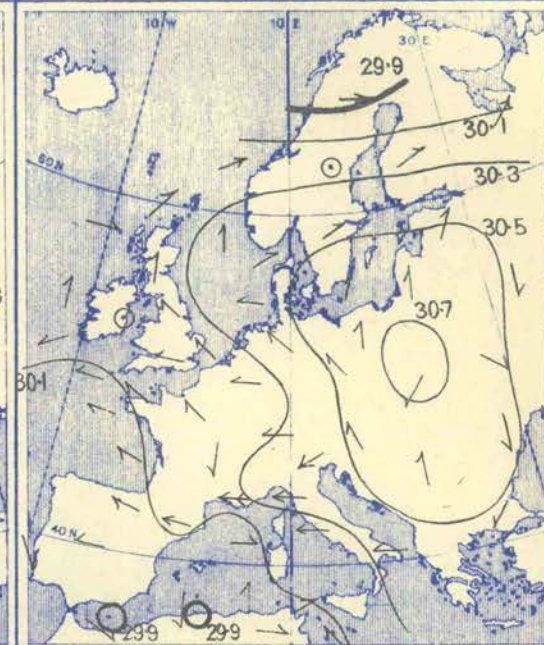


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine at many of the northern stations in our Islands and the Continent, as well as over central France and south Germany. Cloudy or dull in nearly all parts of Europe, with mist or fog in many places and rain at Perpignan and Barcelona. A little rain falling later in the Shetlands and Hebrides and also in the northern parts of Scandinavia, and larger quantities in the south of France—as much as 2.9 ins. at Perpignan. Temperature fallen generally, but risen in Norway and also in the south of Russia. Morning readings highest, 65° at Malta, 63° at Sanguinaire, and 61° at Algiers; above 55° at most of the Mediterranean stations and above 50° in the Hebrides, the Shetlands, and the west of Norway. Lowest, 21° at Hermanstadt, 28° at Uleaborg, Kuopio and Kharkov, and 30° at Helsingfors; slightly below the freezing point in some parts of Germany and central France. Daily maxima below 50° in many parts of the United Kingdom, but thermometer reaching 56° at Nairn and 57° at Scilly. Exceeding 60° in many parts of southern Europe and reaching 75° at Sanguinaire.

Wind Easterly (North-East to South-East) over the south of our Islands and the central and southern parts of the Continent generally; light to fresh in force in most places, but blowing a moderate gale in the extreme south of France. Southerly or South-Westerly in the northern parts of the United Kingdom and also in Scandinavia, but North-Westerly in Russia. No important change occurring over western Europe during day, but South-Westerly wind increasing considerably in Scandinavia. Barometer highest, 30.7 ins. and upwards over Poland and eastern Austria; 30.2 ins. and upwards in an anticyclone embracing all the more eastern and central parts of the Continent, and extending westwards over nearly the whole of the United Kingdom. Lowest, 29.9 ins. and less in a shallow depression over the southern parts of the Spanish Peninsula; 30.1 ins. and upwards in the extreme north of Russia. Barometer falling over western Europe during day; western portion of anticyclone beginning to give way and new depression appearing over the north of Scandinavia.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: $\rightarrow$ = a heavy gale; $\rightarrow$ = a gale; $\rightarrow$ = a fresh to strong breeze; $\rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the time, when a large anticyclone lay over the eastern parts of Europe, the weather in most of the western countries was affected by a shallow depression which had advanced eastwards across our Islands at the close of the previous week and which lay on the 13th over the east of England. In the rear of this disturbance the wind blew with the force of a gale from the Northward on many parts of our western coasts, the weather being mostly fine over the United Kingdom, but dull and unsettled over the western parts of the Continent, and especially in the south of France, where thunderstorms and very heavy rain occurred on the 13th. On reaching the North Sea, however, the depression filled up, the anticyclone spreading at the same time over all but the extreme northern and southern parts of Europe. The weather was therefore, for the most part fair and dry, with, however, a good deal of fog and mist, and with slight rain in many parts of the United Kingdom, especially on the 15th and 16th, when some shallow depressions were developed over our Islands. In the more northern countries the weather during the latter part of the week was affected by a deep cyclonic system which advanced from the Atlantic and which travelled eastwards across the extreme northern parts of Scandinavia and Russia. This disturbance occasioned strong gales from the Westward (South-West to North-West) in many parts of northern Europe, with considerable falls of rain or snow in places. Over southern Europe and the Mediterranean the conditions were influenced by a shallow depression which spread over from Algeria, the disturbance occasioning heavy rain in places; at Perpignan the fall on the 19th amounted to as much as 2.9 ins.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 272.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	15.8	?	30	?	WESTBOURNE (Ramsworth)	19.8*	+ 5.0	31*	+ 8
STRATHPEFFER SPA	14.2	+ 8.0	26	+ 7	WATERGATE (Emsworth)	21.0	?	34	?
EDINBURGH	6.6	- 6.4	12	- 10	BRIGHTON	19.4	+ 2.8	32	+ 6
MORPETH	6.3	?	11	?	EASTBOURNE	20.1	+ 5.1	33	+ 9
NEWCASTLE-ON-TYNE	4.5	?	8	?	VENTNOR HOSPITAL	17.9	?	29	?
OSWALDKIRK (Yorkshire)	0.1	- 11.4	0	- 20	SOUTHPORT	11.6	?	20	?
HOLLESLEY BAY	17.5	?	29	?	COLWYN BAY	?	?	?	?
SHEFFIELD	4.7	?	8	?	TENBY	6.6	- 8.5	11	- 13
WORKSOP	0.8	- 10.8	1	- 18	NEWQUAY	15.0	- 3.0	24	- 5
THURCASTON (Leicestershire)	2.8	- 10.2	5	- 16	TORQUAY	14.4*	- 0.8	23*	- 1
PLUMSTEAD COMMON	8.1	?	13	?	GUERNSEY	17.3*	+ 2.3	27*	+ 4
MARGATE	15.1	- 0.1	25	0					

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.VOL. XV. No. 47.]
Third Series.

WEEK ENDING SATURDAY, NOVEMBER 26TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. **TEMPERATURE.**—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). **ACCUMULATED TEMPERATURE** indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a “Day-degree” signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. **RAINFALL.**—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. **BRIGHT SUNSHINE.**—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of “Accumulated Temperature” will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 278.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	47	20	41.2	32.5	36.8	4 below	Day-deg. 0	Day-deg. -16	Day-deg. 36	Day-deg. +19	Day-deg. 2242	Day-deg. +312	Day-deg. 456	Day-deg. -255
	1. SCOTLAND, EAST	47	22	40.7	32.0	36.4	3 below	0	-17	39	+18	2528	+211	499*	-257
	2. ENGLAND, N.E.	53	25	44.8	35.3	40.1	1 below	8	-14	26	+11	2850	+331	363	-244
	3. ENGLAND, EAST	51	25	45.6	36.2	40.9	1 below	10	-15	23	+6	3192	+279	435	-251
	4. MIDLAND COUNTIES	50	23	43.7	34.7	39.2	2 below	5	-19	27	+8	3106	+223	446	-260
	5. ENGLAND SOUTH	55	26	48.2	39.1	43.7	0 (average)	24	-9	8	-1	3552	+371	242	-277
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	50	20	42.7	34.0	38.4	3 below	2	-20	29	+16	2760	+307	275	-252
	7. ENGLAND, N.W.	50	26	44.5	35.8	40.2	3 below	7	-18	24	+14	3045	+355	239	-263
	8. ENGLAND, S.W.	56	25	48.8	38.5	43.7	1 below	27	-10	10	+4	3395	+395	215	-171
	9. IRELAND, NORTH	52	27	44.5	36.5	40.5	2 below	7	-15	21	+8	2898	+314	250	-197
	10. IRELAND, SOUTH	53	25	46.5	36.0	41.2	3 below	13	-20	24	+15	3386	+439	191	-161
	-CHANNEL ISLANDS-	59	34	53.4	43.4	48.1	0 (average)	45	-8	0	-1	4060	+592	55	-95

DISTRICTS. (See p. 278.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Ins.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	13	10ths of in. 1 more	228	+10	53.0	+9.1	4	-4	7	-7	1210	+166	29	+4	
	1. SCOTLAND, EAST	6	18	10 more	180*	+1	26.8	-1.8	7	-3	13	-6	1285	+47	31	+1	
	2. ENGLAND, N.E.	6	18	12 more	157	-11	20.2	-3.6	9	0	17	0	1195	-17	29	-1	
	3. ENGLAND, EAST	6	16	10 more	138	-26	17.7	-6.0	7	-6	12	-10	1489	-15	35	-1	
	4. MIDLAND COUNTIES	6	15	8 more	144	-17	19.3	-6.3	7	-3	13	-5	1336	+30	33	+1	
	5. ENGLAND, SOUTH	7	22	15 more	132	-24	18.7	-7.5	8	-5	13	-8	1482	-15	37	0	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	11	2 less	198	+12	39.3	-4.4	8	-2	14	-5	1288	+6	32	+1	
	7. ENGLAND, N.W.	6	7	1 less	175	0	30.5	-1.0	9	-1	16	0	1392*	+108	34	+3	
	8. ENGLAND, S.W.	7	21	11 more	163	-14	30.0	-5.2	14	0	23	0	1642	+49	40	+1	
	9. IRELAND, NORTH	6	18	9 more	214	+11	33.6	-0.3	7	-7	12	-12	1257	+37	30	+1	
	10. IRELAND, SOUTH	5	25	16 more	174	-10	35.1	+0.4	13	-2	22	-3	1440	+54	35	+2	
	-CHANNEL ISLANDS-	7	15	6 more	181	-7	23.0	-6.8	16	+1	26	+2	1916	+133	48	+3	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the “differences from the mean” for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period was extremely unsettled, with frequent heavy rains in most districts, especially in the east of Ireland, and a considerable fall of wet snow over the northern and central parts of Great Britain. Thunder and lightning were experienced at some south-western stations towards the end of the week.

Temperature was below the mean in all districts except England S. and the Channel Islands. The highest of the maxima were recorded during the earlier days of the week over Ireland and Scotland, and on rather variable dates in England. They ranged from 59° in the Channel Islands, 56° in England S.W., and 55° in England S., to 47° in Scotland N. and E. The lowest of the minima occurred either on the 22nd or 23rd, and ranged from 20° in Scotland N. and W., to between 22° and 27° in all other districts excepting the Channel Islands, where the lowest reading was 34°.

Rainfall was rather less than the mean in Scotland W. and England N.W., but very much in excess of the normal in nearly all other districts. During the middle part of the week the fall was unusually heavy and continuous over the southern half of the Kingdom generally and particularly

over the east of Ireland. From the 22nd to the 25th as much as 3.23 ins. fell at Dublin (Fitzwilliam Square), 3.58 ins. at Killiney, 4.18 ins. at Phoenix Park, Dublin, and 4.72 ins. at Bray.

Bright Sunshine was deficient in nearly all districts except the Channel Islands. The percentage of the possible duration ranged from 26 in the Channel Islands, and 23 in England S.W., to 12 in England E. and Ireland N., and to 7 in Scotland N.

Barometer and Wind.—During the earlier days of the period some small and shallow disturbances, followed by an anticyclone from the westward passed eastwards over our Islands, the wind at the same time shifting from the South-Westward to North-West and North. On Tuesday night, however, a very sudden fall of the barometer occurred in the west and north-west, and by Wednesday morning a deep depression had advanced over Ireland from the north-north-westward. This system moved slowly southwards and south-south-eastwards until the 25th, when it moved northwards for a time. By the end of the week it was filling up over Brittany, while a secondary disturbance had been formed over the Channel and the south-east of England. Gales were experienced in almost all places, the most severe being from the Northward in the west of Ireland, and from the Eastward on the east coast of Scotland.

II.—DATA from which the SUMMARY on page 277 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	46	25	41.1	33.9	37.5	- 3.5	0	32	6	0.85	- 0.13	*	*	*	*
	Stornoway	46	27	42.0	34.0	38.0	- 3.0	0	28	6	1.25	+ 0.13	5.2	- 3.6	10	- 7
	Wick	45	27	42.4	34.3	38.4	- 2.0	1	28	7	2.04	+ 1.39	*	*	*	*
	Lairg	47	20	39.1	28.8	34.0	+ 5.0	0	56	7	2.38	+ 1.58	*	*	*	*
	Glencarron	47	25	39.2	32.0	35.6	- 3.4	0	45	5	1.76	- 0.51	*	*	*	*
	Fort Augustus	45	23	42.0	31.5	36.8	- 2.7	0	36	7	0.39	- 0.69	1.0	- 2.0	2	- 4
	Fort William	46	25	42.3	32.7	37.5	- 4.0	1	33	6	0.61	- 1.37	3.1	- 2.4	6	- 4
1. SCOTLAND, E.	Nairn	47	26	40.1	31.9	36.0	- 3.4	0	42	6	0.55	+ 0.03	*	*	*	*
	Aberdeen	45	27	42.3	35.4	38.9	- 1.6	1	24	7	1.97	+ 1.18	7.9	- 4.1	15	- 7
	Braemar	41	22	36.2	27.3	31.8	- 4.9	0	71	7	2.22	+ 1.44	5.2†	- 1.0†	10†	- 2†
	Ochertyre	46	22	41.1	31.3	36.2	- 3.3	0	41	6	2.78	+ 1.77	*	*	*	*
	Leith	47	28	43.4	33.4	38.4	- 3.2	4	31	6	1.07	+ 0.57	*	*	*	*
	Marchmont	45	26	40.9	32.7	36.8	- 2.2	0	36	4	2.02	+ 1.17	9.8	- 2.0	18	- 4
2. ENGLAND, N.E.	Alnwick Castle	48	28	44.5	34.2	39.4	- 1.2	7	29	6	2.59	+ 1.81	*	*	*	*
	Durham	48	25	42.4	34.3	38.4	- 1.8	1	28	6	1.66	+ 1.05	11.3	0.0	21	0
	Shields	48	29	45.0	35.4	40.2	- 1.3	8	25	6	2.17	+ 1.62	*	*	*	*
	Scarborough	53	28	47.0	34.5	40.8	- 1.2	14	30	6	1.98	+ 1.35	2.3	?	4	?
	York	49	28	44.6	34.0	39.3	- 1.7	7	30	7	1.37	+ 0.89	9.4	+ 1.1	17	+ 2
	Spurn Head	48	33	45.4	39.6	42.5	+ 0.1	14	7	6	1.23	+ 0.72	*	*	*	*
3. ENGLAND, E.	Hillington	50	27	45.5	35.7	40.6	- 0.6	10	25	6	1.48	+ 0.86	5.7	- 5.8	10	- 10
	Yarmouth	49	31	46.4	39.4	42.9	+ 0.9	17	7	6	2.24	+ 1.57	*	*	*	*
	Geldeston	51	28	46.0	37.3	41.7	- 0.4	11	20	7	1.89	+ 1.29	6.3	- 7.4	11	- 15
	Cambridge	51	25	45.9	34.1	40.0	- 1.1	11	30	6	1.08	+ 0.63	6.8	- 6.8	12	- 11
	Rothamsted	49	25	44.4	34.6	39.5	- 1.5	7	28	7	1.47	+ 0.87	8.2	- 4.5	14	- 8
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	49	25	44.0	33.9	39.0	- 2.1	6	30	6	1.35	+ 0.88	*	*	*	*
	Loughborough	49	25	44.4	35.0	39.7	- 2.4	7	26	5	1.23	+ 0.76	*	*	*	*
	Stamford (Duddington)	49	24	43.9	33.4	38.7	- 2.8	5	32	5	1.34	+ 0.66	*	*	*	*
	Cheadle	46	26	41.6	33.6	37.6	- 2.4	0	31	5	1.54	+ 0.89	*	*	*	*
	Shirley (near Solihull)	48	24	42.9	34.3	38.6	- 2.7	3	28	5	1.93	?	*	*	*	*
	Churchstoke	49	24	43.5	33.3	38.4	- 2.3	4	32	6	1.63	+ 0.86	9.8	- 0.9	17	- 1
	Hereford	48	25	44.0	36.0	40.0	- 2.0	6	22	6	1.14	+ 0.52	*	*	*	*
	Cirencester	50	23	44.1	35.6	39.9	- 0.9	6	24	6	1.59	+ 0.89	5.6	- 6.1	10	- 10
	Oxford	50	27	45.3	37.1	41.2	- 0.7	9	19	7	1.33	+ 0.75	8.2	- 3.8	14	- 7
5. ENGLAND, S.	London	52	29	46.9	38.3	42.6	- 0.1	20	10	7	1.80	+ 1.32	5.4†	- 2.4†	9†	- 4†
	North Foreland	52	32	47.4	40.1	43.8	- 0.2	21	5	7	1.00	?	*	*	*	*
	Cranley	51	26	46.3	37.4	41.9	- 0.8	12	19	7	3.05	?	*	*	*	*
	Dungeness	55	28	51.0	40.4	45.7	+ 1.7	33	4	6	0.53	- 0.22	*	*	*	*
	Hastings (St. Leonards)	53	31	49.8	38.9	44.4	+ 0.7	30	9	6	1.30	+ 0.58	8.2	- 6.8	14	- 11
	Southampton	52	28	48.6	38.7	43.7	+ 0.2	26	9	7	3.21	+ 2.51	7.8	- 5.2	13	- 8
	Hurst Castle	55	29	50.9	41.4	46.2	+ 1.2	32	2	6	3.02	+ 2.33	*	*	*	*
6. SCOTLAND, W.	Shaftesbury	49	27	44.8	37.3	41.1	+ 0.3	8	19	7	3.28	+ 2.46	*	*	*	*
	Landale (Loch Sunart)	50	26	43.5	32.6	38.1	- 3.9	4	34	4	0.37	- 1.73	*	*	*	*
	Glasgow	45	27	41.1	34.1	37.6	- 2.4	0	31	4	1.20	+ 0.31	5.6	- 1.0	11	- 1
	Ardrossan	45	28	42.1	33.6	37.9	- 2.8	0	30	5	1.29	+ 0.46	*	*	*	*
	Glenlee	45	20	40.6	31.8	36.2	- 3.8	0	41	4	0.91	- 0.59	*	*	*	*
7. ENGLAND, N.W.	Douglas (Isle of Man)	49	28	46.1	38.1	42.1	- 1.7	17	11	7	1.53	+ 0.50	9.3	- 4.5	17	- 8
	Stonyhurst	47	28	41.8	34.9	38.4	- 3.2	0	25	4	0.69	- 0.32	11.7	+ 2.2	21	+ 5
	Blackpool	50	26	44.6	34.4	39.5	- 2.6	7	28	6	0.35	- 0.40	9.3	+ 0.3	17	+ 1
	Manchester (Prestwich)	47	27	42.5	34.8	38.7	- 2.6	1	26	4	0.32	- 0.48	6.7	?	12	?
	Liverpool Obsy. (Bidston)	48	28	44.1	34.9	39.5	- 3.2	6	26	6	0.76	+ 0.11	*	*	*	*
	Llandudno	50	29	46.5	36.9	41.8	- 3.0	13	22	7	0.55	- 0.20	7.3	- 2.9	13	- 5
	Holyhead	50	35	47.4	39.1	43.3	- 2.6	22	8	7	1.51	+ 0.63	*	*	*	*
8. ENGLAND, S.W.	Llandovery	49	25	47.4	35.4	41.4	- 0.6	15	27	6	1.42	+ 0.24	*	*	*	*
	Pembroke	54	38	49.3	41.3	45.3	- 0.8	26	2	7	2.32	+ 1.38	16.9	+ 3.9	29	+ 7
	Clifton															
	Arlington (N. Devon)	51	28	47.4	36.6	42.0	- 0.7	15	15	7	2.12	+ 0.72	*	*	*	*
	Cullompton	51	28	48.4	37.4	42.9	- 0.2	26	13	7	3.00	+ 2.20	7.3	- 3.7	12	- 6
	Falmouth	54	35	49.2	41.0	45.1	- 2.0	26	3	7	1.23	+ 0.01	17.4	+ 2.4	29	+ 4
	Plymouth	53	30	49.9	37.9	43.9	- 1.9	31	11	7	2.24	+ 1.32	12.0	- 1.0	20	- 1
9. IRELAND N.	Prawle Point	56	30	50.3	39.7	45.0	- 1.0	31	6	7	2.32	+ 1.62	*	*	*	*
	Malin Head	48	33	44.9	38.0	41.5	- 2.0	8	16	6	1.23	?	*	*	*	*
	Londonderry	48	31	44.1	36.3	40.2	- 2.2	6	21	6	1.68	+ 0.72	*	*	*	*
	Edenfel (Omagh)	49	27	42.7	34.0	38.4	- 1.6	2	29	5	0.94	+ 0.14	*	*	*	*
	Belmullet	52	35	47.6	36.9	42.3	- 2.1	24	14	7	3.36	+ 1.98	*	*	*	*
	Markree Castle	47	29	44.4	35.9	40.2	- 1.6	7	23	7	1.15	+ 0.25	6.0	- 6.7	11	- 11
	Armagh	45	28	42.6	35.7	39.2	- 2.0	2	23	5	1.13	+ 0.51	7.1	- 6.3	13	- 11
10. IRELAND S.	Donaghadee	47	33	44.9	38.4	41.7	- 1.8	8	15	5	2.74	+ 2.12	*	*	*	*
	Dublin	49	29	46.1	38.0	42.1	- 1.9	18	11	5	3.24	+ 2.74	13.6	- 2.4	24	- 4
	Parsonstown	48	27	44.9	32.4	38.7	- 3.1	8	36	5	3.50	+ 2.75	12.5	- 2.0	22	- 2
	Kilkenny	47	26	44.9	34.9	39.9	- 3.8	8	27	4	1.79	+ 1.17	*	*	*	*
	Roche's Point	52	31	47.1	38.1	42.6	- 3.2	21	11	5	1.53	+ 0.39	*	*	*	*
	Valencia	53	33	49.4	36.4	42.9	- 3.9	30	16	7	3.28	+ 2.02	11.4	- 2.3	20	- 4
	Killarney	52	25	47.3	35.5	41.4	- 3.1	15	26	6	2.25	?	*	*	*	*
CHANNEL ISLANDS	Foynes	51	30	45.8	36.4	41.1	- 3.1	11	22	5	1.87	?	*	*	*	*
	Scilly (St. Mary's)	57	41	53.7	44.4	49.1	+ 0.3	50	0	7	1.47	+ 0.54	17.4	?	29	?
	Jersey	59	34	53.0	42.4	47.7	+ 0.5	40	0	7	1.55	+ 0.63	16.9	+ 1.4	28	+ 3

Stations marked *fit* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

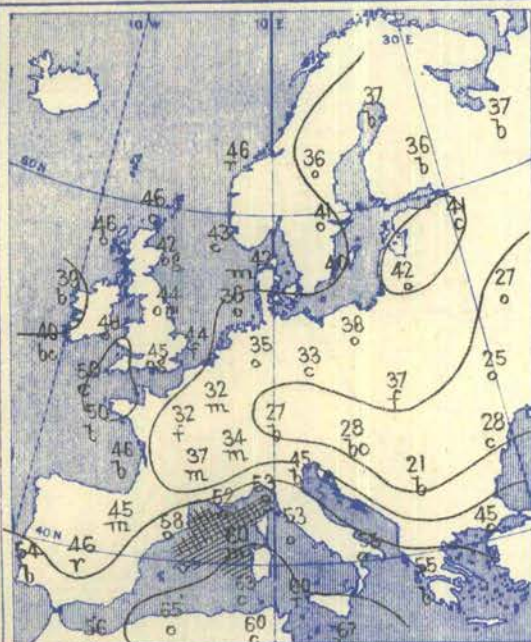
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 20th November.

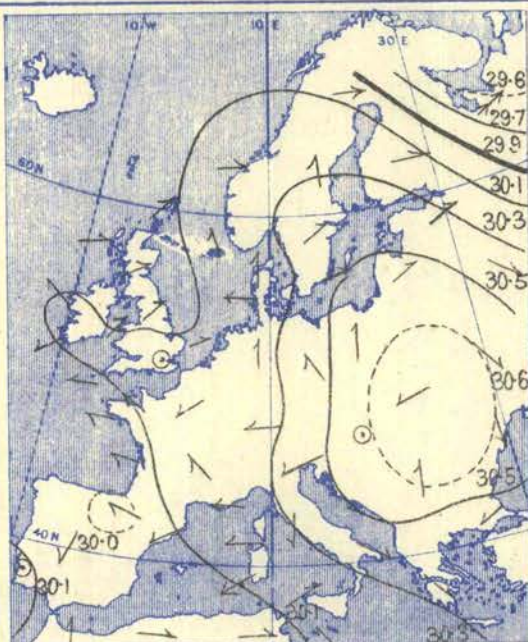
Temperature and Weather.

8 a.m.

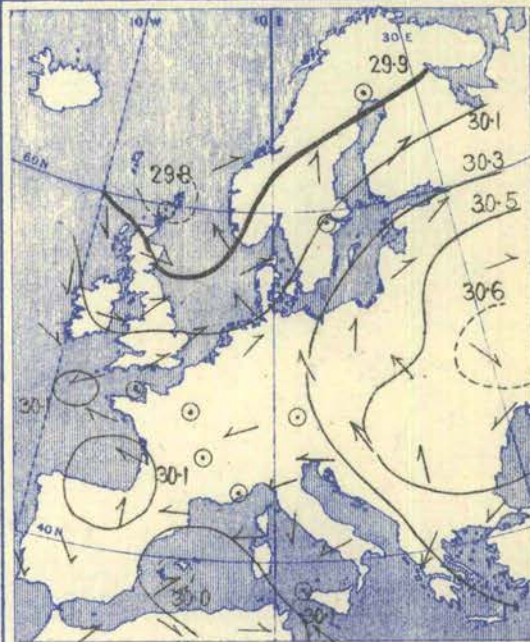


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very dull and hazy over France and England, fair over Ireland and the north of Scotland, fine over northern Europe; very quiet over Russia (southern half), and over central Europe. Rain later over our Islands, but in small quantity, and in the south of France.

Temperature in morning highest, 50° to 45° in the west of France and on the south coast of England, as well as in the extreme north of our Islands and the west of Norway. Lowest, between 36° and 35° over central and eastern Europe, 25° to 27° over Russia, and 27° to 32° over Hungary. Rising later to between 55° and 57° over our south-western coasts, but remaining much lower inland. Maxima in Germany below 45°.

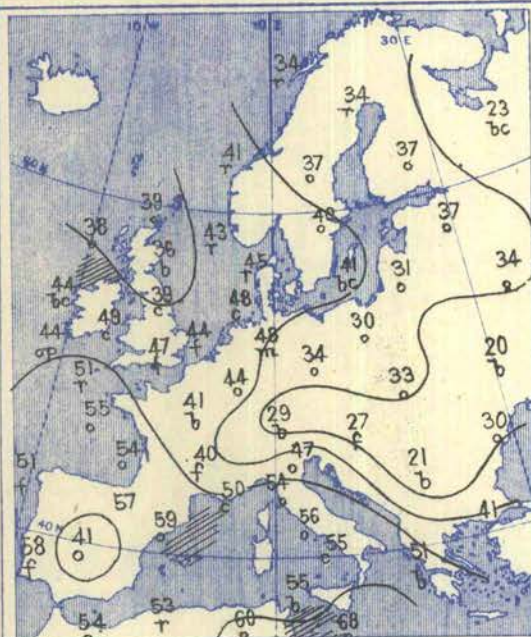
Wind light and anticyclonic over central and eastern Europe, very variable over our Islands, but westerly in the northern districts, and blowing hard at Archangel. Easterly, and moderate, over the Mediterranean generally, but blowing very strongly at Toulon for a time. A cold Northerly breeze setting in on our north-western coasts later.

Barometer highest, 30.6 ins. and more to 30.1 ins. over eastern and central Europe, and exceeding 30.1 ins. over the south and west of our Islands. Lowest, 29.8 ins. and less in a depression over the Shetland Isles. The high-pressure area in the east continuing, but pressure decreasing on our coasts, and becoming very irregularly distributed. Depression in far north becoming more pronounced.

Monday, 21st November.

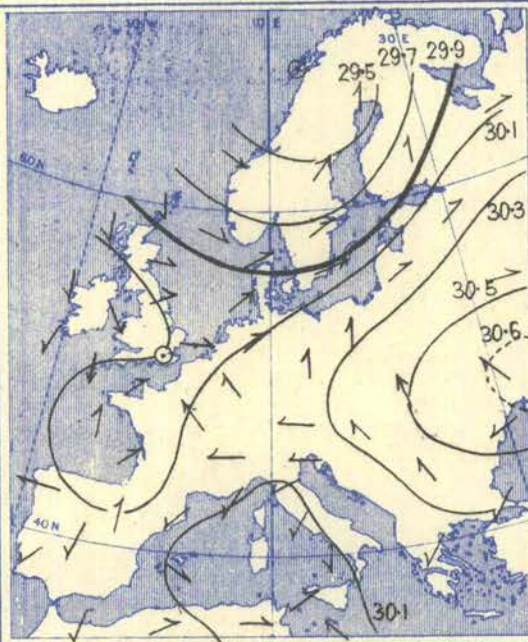
Temperature and Weather.

8 a.m.

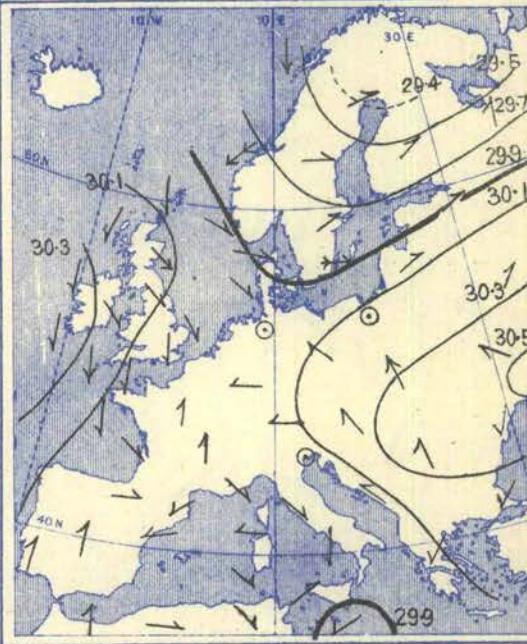


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair generally over eastern and central Europe, with fog in a few places; very unsettled over our Islands and France, with much fog and rain at our eastern, southern and the French stations. Rain or sleet falling later in many places, the fall exceeding 0.6 ins. at the North Foreland, the Heider and Brussels, and exceeding 0.4 ins. at Yarmouth, London and Biarritz. Showers slight at our northern stations.

Temperature fallen in the north of our Islands, and the fall extending. Morning readings highest, 68° at Malta, and 60° to 50° at the Mediterranean stations generally; 53° at Dungeness, 51° at Scilly, and 50° at Hurst Castle and the North Foreland. Lowest, (1) 23° at Archangel, 34° in many parts of Lapland; (2) 20° at Kiev, 25° at Kharkov, and below 32° over many parts of south-eastern Europe; (3) 35° at Wick, and 36° to 38° at many of the Scotch stations. Falling later all over the United Kingdom, the fall reaching the southern stations at night.

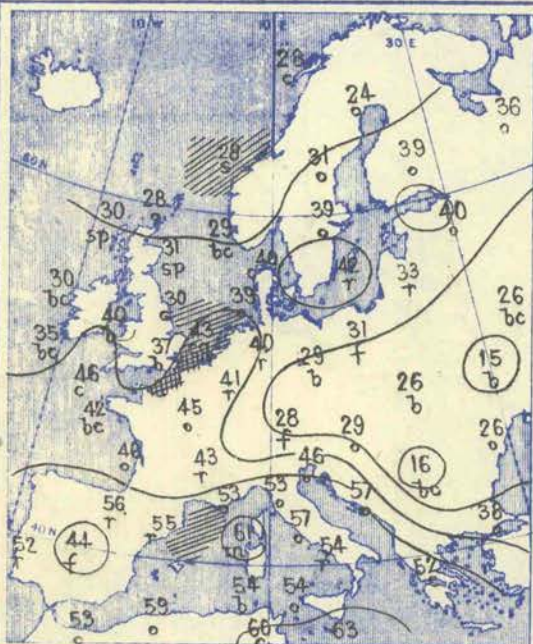
Wind (1) light and anticyclonic over eastern and central Europe; (2) North-Westerly to South-Westerly over the North Sea; South-Westerly to Southerly (moderate to a gale) over Sweden, Denmark, and the Baltic; (3) becoming Northerly on our western and north-western coasts, and blowing freshly.

Barometer highest, (1) 30.6 ins. and more to 30.2 ins. over south-eastern and central Europe, and exceeding 30.2 ins. over the western parts of Ireland, and the south-western parts of the Spanish Peninsula; (2) 29.5 ins. and less in a depression over the north of Scandinavia, and below 30.1 ins. in another (shallow) disturbance over the Mediterranean. Rising quickly later at our northern and western stations, falling in the south and south-east of England as a small depression moved north-eastwards from the Bay of Biscay to those regions.

Tuesday, 22nd November.

Temperature and Weather.

8 a.m.

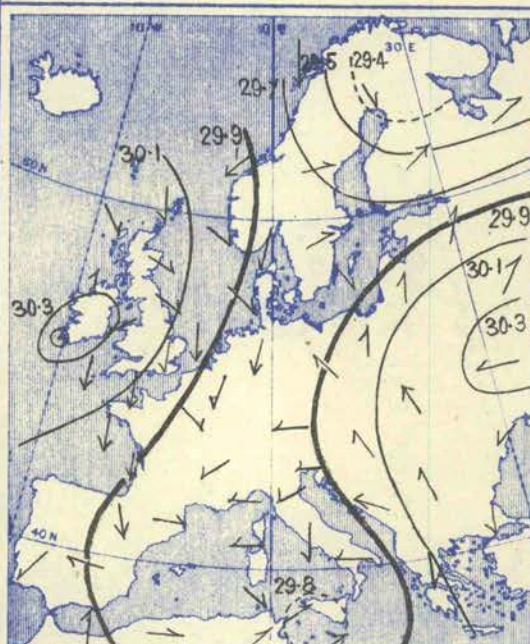


Weather in morning fine over our Islands generally, but snow showers reported at Aberdeen. Cloudy or dull over the greater part of the Continent, with rain over the Baltic, north Germany, the Netherlands, and the east and south of France, as well as at Barcelona, Lisbon, and Naples; snow falling at Christiansund. Fine over eastern Austria and the central parts of Russia. Heavy rain setting in later over the west of our Islands, and snow falling at night in the northern parts of Great Britain. Lunar halos seen over England.

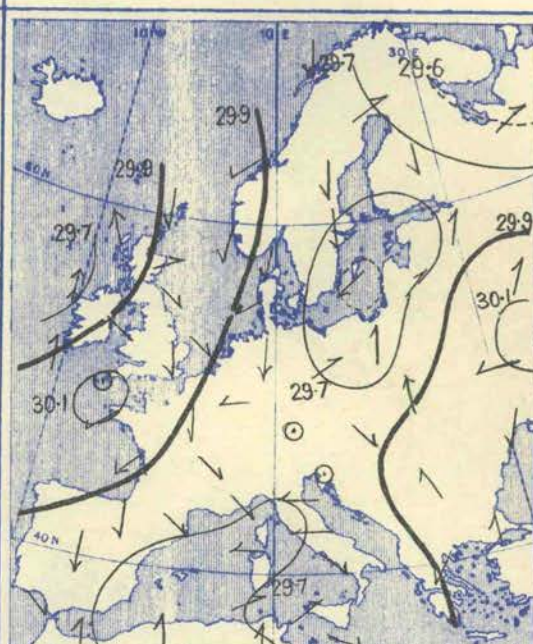
Temperature fallen in most places. Morning readings highest, 63° at Malta, 61° at Sanguinaire, and 60° at La Calle; above 50° in many parts of southern Europe. Lowest, (1) 15° at Kiev, 16° at Hermanstadt, and 18° at Kharkov; (2) 24° at Haparanda, and 28° at Bodö; below the freezing point over the northern and central parts of the United Kingdom generally. Daily maxima below 40° in many parts of Great Britain, and below 50° on all but our extreme south-west coasts. Thermometer exceeding 50° in the west and south of France, and reaching 57° at Lorient, and also at Lisbon. Sharp frost occurring over Great Britain at night.

Barometer and Wind.

8 a.m.



6 p.m.



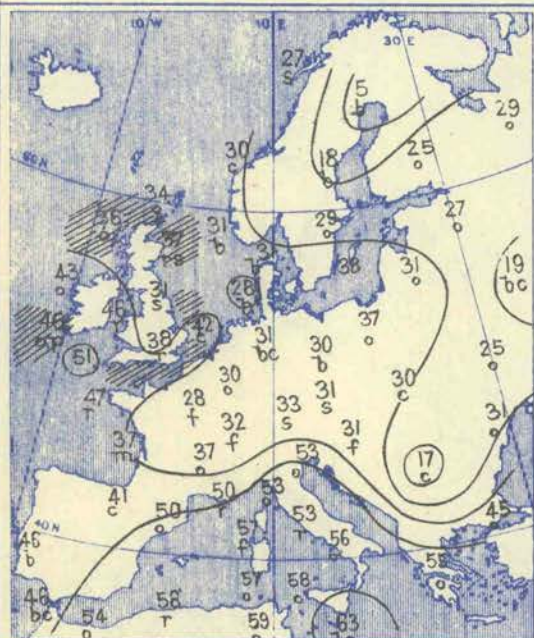
Wind strong from the Northward on the east and south-east coasts of England, and on all the western coasts of the Continent, and light to moderate from the same quarter, or from North-West in most parts of our Islands, but Southerly at Malin Head. Light from the Westward in Sweden, moderate to strong from South-West over northern Russia. North-Easterly in the south of Russia; Easterly in Italy and the extreme south of France; South-Easterly or Southerly in Germany. Subsequently shifting to the Southward on all our own western and northern coasts, and increasing to a gale at night.

Barometer highest, 30.3 ins. and upwards in an anticyclone lying over Ireland, and also in another system over the south of Russia. Lowest, 29.4 ins. and less in a well-marked depression over Lapland; 29.8 ins. and less in a long trough stretching southwards from northern Europe over Germany, France, and the western parts of the Mediterranean. Anticyclone over our Islands giving way later, and deep depression advancing over Ireland at night.

Wednesday, 23rd November.

Temperature and Weather.

8 a.m.

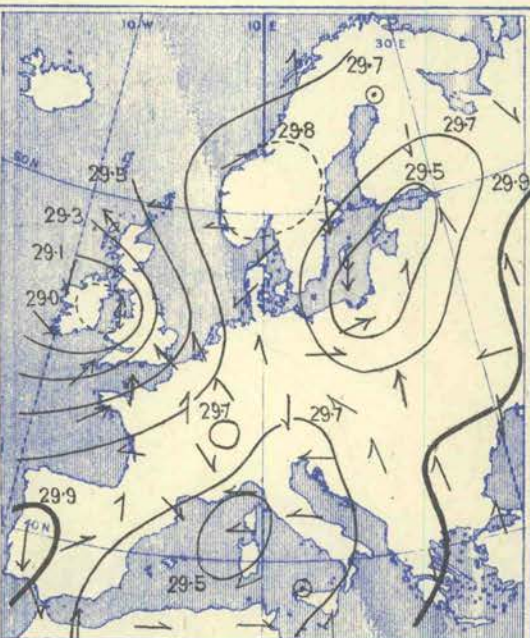


Weather rainy in the west and south of our Islands and the north-west of France, as well as in the extreme south of France and some parts of Austria and Italy. Snow falling in the northern and central parts of Great Britain, as well as over south Germany, and the northern parts of the Baltic. Fine over the Spanish Peninsula, and also over north Germany, Denmark, the south of Norway, and the Gulf of Bothnia. Heavy rain or snow falling later at many of our own and the neighbouring Continental stations; large quantities of rain reported also over the south of France and northern Italy—nearly 3 ins. at Rome.

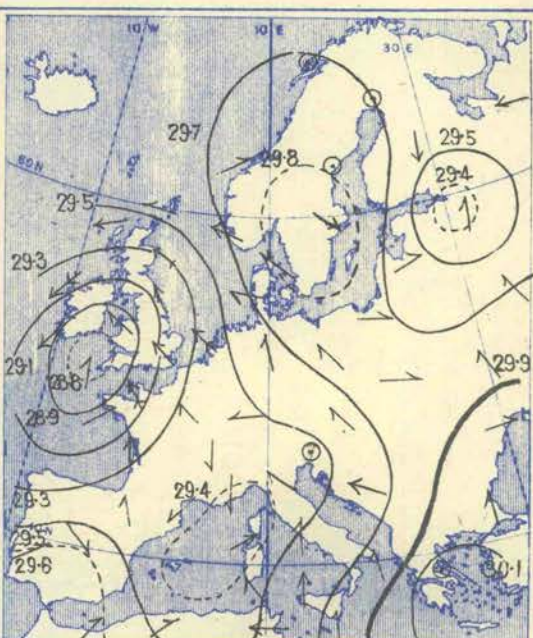
Temperature risen in our Islands, and also in the south-eastern parts of the Continent. Morning readings highest, 63° at Malta, and 59° at La Calle; above 50° at most of the Mediterranean and Adriatic stations. Lowest, (1) 5° at Haparanda, and 13° at Uleaborg; (2) 17° at Hermanstadt; (3) 19° at Moscow; below the freezing point in many parts of northern and central Europe, and just touching it at several of our own northern stations, the thermometer in some places remaining below 40° all day. Exceeding 55° later in many parts of southern Europe, and exceeding 65° at some of the Mediterranean stations.

Barometer and Wind.

8 a.m.



6 p.m.



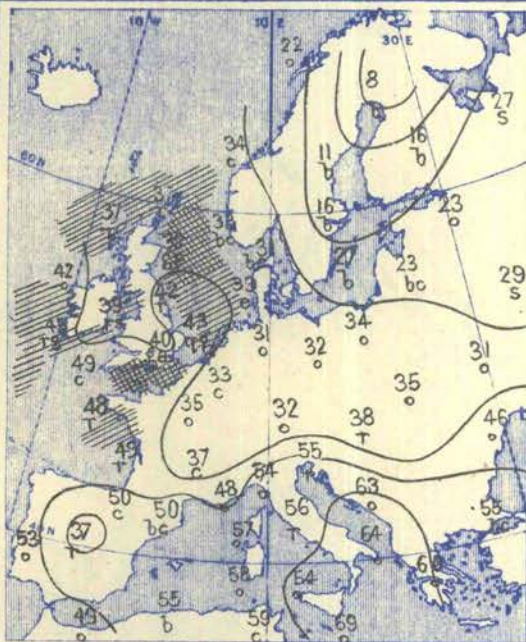
Wind strong to a gale from the Southward or South-Eastward over Great Britain and the north of Ireland; moderate to fresh from the North-Westward in the south of Ireland; strong from South-West in the north-west of France. Northerly over Finland, Denmark, and the south of Scandinavia, with a gale at Wisby; Westerly over eastern Germany. Calm or light from the Eastward over the greater part of Austria, Italy, and the extreme south of France; variable over the Spanish Peninsula. Subsequently increasing to a strong gale from the South-Eastward on many parts of our north and east coasts, and to a violent gale from the North-Eastward in the west of Ireland.

Barometer highest, 30.0 ins. and upwards over central Russia, and also over Asia Minor. Lowest, 29.0 ins. and less in a deep depression with its centre over Ireland; 29.5 ins. and less in two shallower systems—one lying over the Gulf of Finland and the northern part of the Baltic, and the other over the western part of the Mediterranean. Irish depression subsequently moving slowly southwards; northern disturbance passing eastwards over Russia.

Thursday, 24th November.

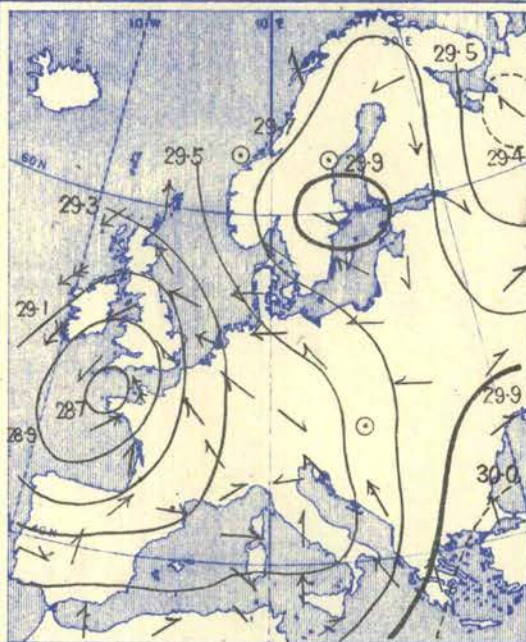
Temperature and Weather.

8 a.m.

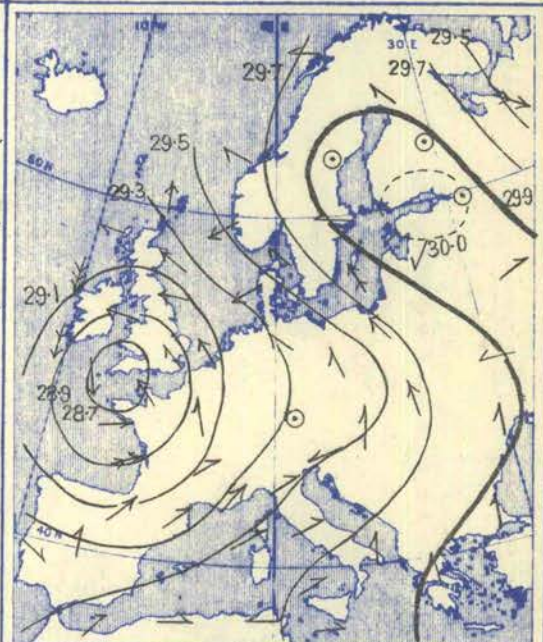


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull at all but the Scandinavian and Danish stations with rain in nearly all parts of the United Kingdom as well as in the west of France and many parts of Spain, Italy and Austria. Snow falling at Archangel and Moscow. Heavy rain falling later in our Islands as well as at many of the French, Spanish, and Italian stations. Thunderstorms occurring in the west and south of France, and lightning seen over the English Channel.

Temperature fallen in the west of our Islands and also in Sweden and northern Russia, but risen elsewhere. Morning readings highest, 69° at Malta and 64° at Brindisi and Palermo; above 55° at many of the Mediterranean and Adriatic stations. Lowest, -8° Fahr. at Haparanda, -1° at Uleaborg, +11° at Hernand and 13° at Karlstad; below the freezing point over northern Europe generally, and below 40° in many parts of the United Kingdom. Daily maxima below 45° at several of our own stations, but thermometer rising slightly above 50° in the extreme south of England. Exceeding 55° over southern Europe generally, and reaching 70° or more at some of the Mediterranean stations.

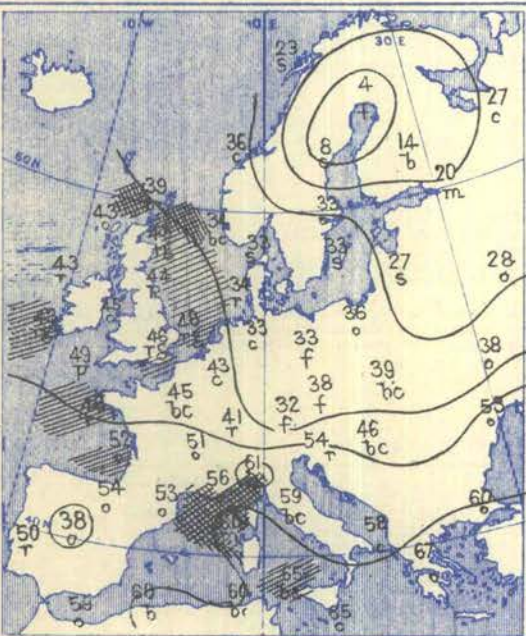
Wind blowing a gale from the South-Eastward on our north and east coasts, and a very severe gale from the North-Eastward in the west of Ireland; moderate to fresh from the Eastward or North-Eastward on the west coast of Great Britain. Southerly or South-Westerly over Spain and the west and south of France; Southerly or South-Easterly in Italy and Austria. Light from East or South-East over Germany and the Netherlands, and strong from the same quarters on the eastern shores of the North Sea. Calm over the northern parts of Scandinavia; variable in Russia. Gale subsiding a little later on our north and east coasts, but wind increasing from the South-Westward in France.

Barometer highest, 30.0 ins. and upwards over south-eastern Europe; 29.9 ins. and upwards in the south of Sweden. Lowest, 28.7 ins. and less in a deep depression with its centre at the mouth of the English Channel; 29.4 ins. and less in a shallow disturbance over the extreme north of Russia. Channel depression subsequently moving slowly northwards, and barometer beginning to rise on our extreme south-west coasts.

Friday, 25th November.

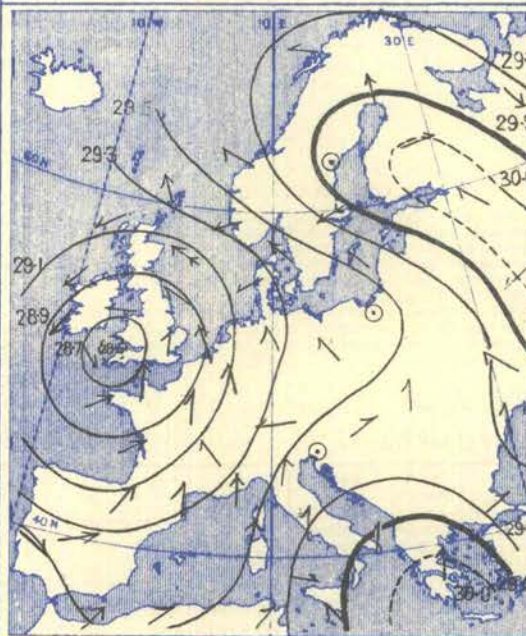
Temperature and Weather.

8 a.m.

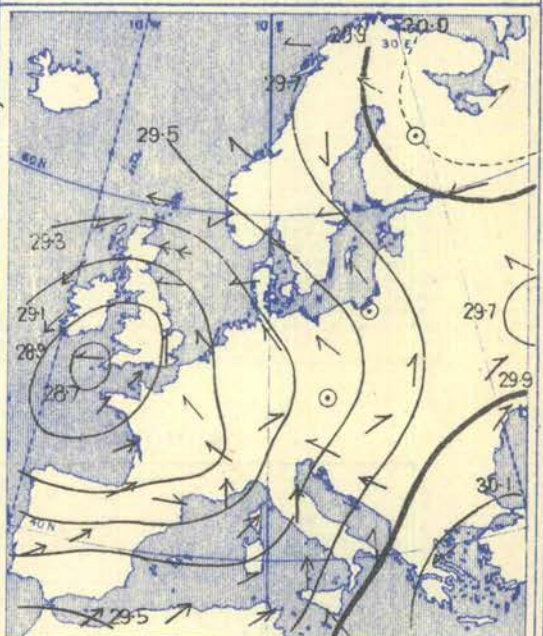


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still very disturbed over the whole of western Europe, but fair and comparatively quiet in the east and south-east. Rain falling later at all the western stations and in France, the amount being in many cases large. Halos and thunderstorms observed over the south of England.

Temperature rising all over the British Islands and France. Morning readings highest, 67° at Athens, 65° at Malta and Palermo, and 50° to 55° along the west coast of France. Lowest, 4° at Uleaborg, 8° at Hernisand, and below the freezing point over the northern parts of Europe and central Russia, 38° at Nairn, 39° at Sumburgh Head. Rising to between 50° and 55° over France and the south of England later, and to 50° at Perpignan, to 64° at Croisette, and to 80° at Palermo.

Wind remaining cyclonic all over western Europe, Easterly in the north, Southerly to West in the south, and still blowing hard at the northern stations. Anticyclonic in the east and north of Europe.

Barometer 30.0 ins. and more to 29.5 ins. over the northern and eastern countries, as well as in the extreme south-east. Lowest, 28.6 ins. and less in a depression over Cornwall—the gradients being steep in most of the western districts. Rising later over our Islands generally as well as over the coasts of western Europe; falling in the north.

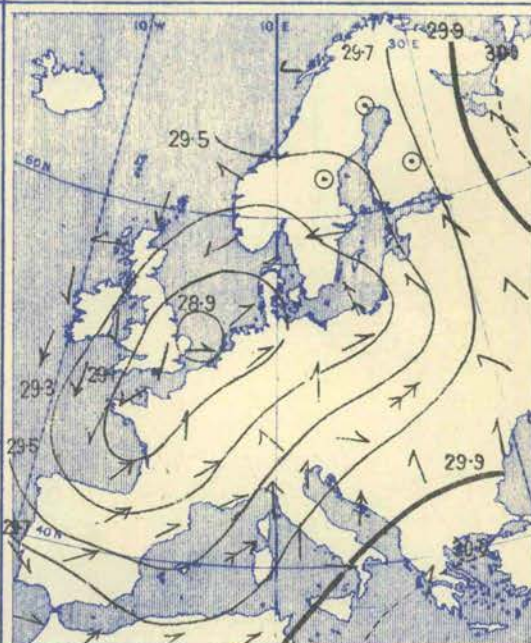
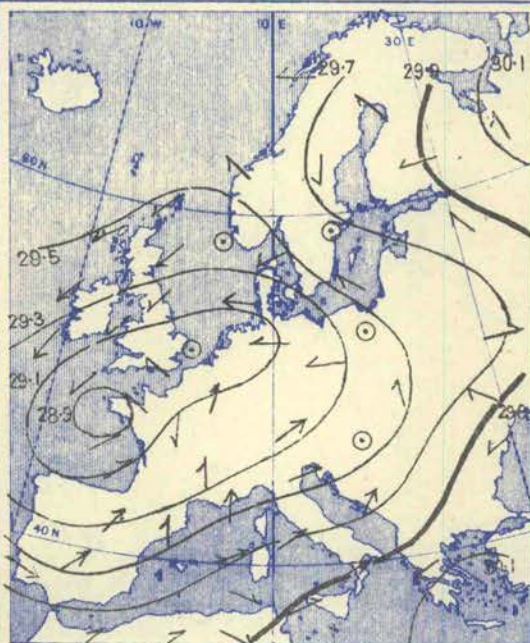
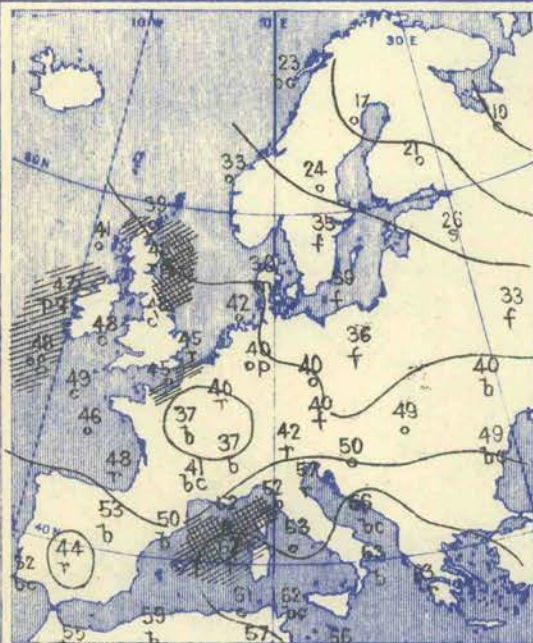
Temperature and Weather.

Barometer and Wind.

8 a.m.

8 a.m.

6 p.m.



Wind North-Easterly at the northern and western stations, South-Westerly to Southerly over the southern and eastern countries, variable in between these two main currents. The Northerly current growing less strong in our Islands during day, the South-Westerly increasing in strength over the south-west of France.

Temperature in morning fallen a little over England and France, risen over the more eastern countries. Morning readings highest, 66° at Malta and Lesina, and above 60° at several other stations in south-eastern Europe, the Adriatic and Mediterranean, 53° at Biarritz. Lowest, 10° Faht. at Archangel, 17° at Haparanda, and below 40° over northern Europe generally, as well as over central France. Rising a little in France during day, but falling still over our Islands.

Barometer rising at first at the western stations, falling in east and north. The depression lately observed now lying over Brittany, but others developing near Yarmouth and over the Baltic, not far from Riga. This process continuing later till, at 6 p.m., well when defined disturbances were formed in the east and north.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus:  = a heavy gale;  = a gale;  = a fresh to strong breeze;  = a light to moderate breeze; and  = calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The weather experienced over Europe, and especially over the western half during this week was of a very unsettled character. During the first half of the period pressure was continuously highest (30·6 ins. to 30·3 ins.) over the south-eastern countries, and a collision of wind currents, caused by the advance of a new high pressure system from the westward, caused much rain over the western countries and a fall of temperature. This was followed by a period in which well-marked depression advanced rapidly from the north-north-westward, and reaching the mouth of the English Channel on Thursday morning remained there till nearly the close of the week, causing heavy and continuous rains and snow, in our Islands and western Europe (3 to 5 inches in the east of Ireland), and much snow at the northern and north-western stations. Pressure now gave way in the south-east, and rough weather spread inland gradually, till the greater part of Continental Europe was involved in unsettled weather, rain and snow. On Friday night and Saturday considerable complication ensued by the formation of fresh depressions over Holland and the north of Europe, and the breaking up of that near Brittany, which subsequently caused heavy falls (snow and rain) in those regions, but the weather cleared up temporarily over England, and temperature changed a good deal.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 278.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
DEERNES (Orkney Islands) . . .	7.1	?	14	?	WESTBOURNE (Emsworth) . . .	12.2*	+ 0.2	21*	+ 1
STRATHPEFFER SPA	2.4	- 0.4	5	-12	WATERGATE (Emsworth)	7.7	?	13	?
EDINBURGH	5.1	- 5.5	10	-10	BRIGHTON	7.8	- 5.7	13	-10
MORPETH	10.6	?	20	?	EASTBOURNE	9.0	- 4.0	15	- 8
NEWCASTLE-ON-TYNE	10.1	?	19	?	VENTNOR HOSPITAL	9.7	?	16	?
OSWALDKIRK (Yorkshire)	10.2	- 0.3	19	0	SOUTHPORT	10.8	?	20	?
HOLLESLEY BAY	6.8	?	12	?	COLWYN BAY	8.3	?	15	?
SHEFFIELD	5.6	?	10	?	TENBY	15.2	+ 2.2	26	+ 4
WORKSOP	8.2	- 1.8	14	- 4	NEWQUAY	17.5	+ 1.5	29	+ 2
THURCASTON (Leicestershire) . .	7.2	- 3.8	13	- 6	TORQUAY	9.0*	- 4.5	15*	- 8
PLUMSTEAD COMMON	4.2	?	7	?	GUERNSEY	13.7*	+ 0.8	22*	+ 2
MARGATE	4.0	- 9.7	7	-15					

* The values at Westbourne, Torquay, and Guernsey are obtained by J. C. Van's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.VOL. XV. No. 48.]
Third Series.

WEEK ENDING SATURDAY, DECEMBER 3RD, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The Daily Mean is obtained from the maxima and minima by applying a suitable correction determined for each month. The Mean for the Week is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The Means with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The Mean Amounts are those for the corresponding periods in the thirty years 1868-95, but the Mean numbers of Rainy Days are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The Mean Values employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 284.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	52	10	42.9	30.8	36.9	3 below	Day-deg. 3	Day-deg. -10	Day-deg. 40	Day-deg. +22	Day-deg. 2245	Day-deg. +302	Day-deg. 496	Day-deg. -233
	1. SCOTLAND, EAST	54	9	44.2	30.9	37.5	1 below	6	- 8	40	+17	2534	+203	539	-240
	2. ENGLAND, N.E.	57	24	47.8	36.2	42.0	2 above	16	- 2	16	- 1	2866	+329	379	-245
	3. ENGLAND, EAST	57	28	48.3	36.7	42.5	2 above	26	+ 6	15	- 5	3218	+285	450	-256
	4. MIDLAND COUNTIES	59	28	47.6	37.0	42.3	2 above	23	+ 3	14	- 7	3129	+226	460	-267
	5. ENGLAND SOUTH	56	28	48.6	39.3	44.0	2 above	25	- 4	8	- 2	3577	+367	250	-279
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	17	46.8	35.3	41.1	0 (average)	13	- 6	27	+12	2773	+301	302	-140
	7. ENGLAND, N.W.	59	24	48.3	38.3	43.3	1 above	25	+ 1	10	- 2	3070	+359	249	-265
	8. ENGLAND, S.W.	56	26	49.2	39.2	44.2	1 above	27	- 5	8	+ 1	3420*	+388	222*	-171
	9. IRELAND, NORTH	54	29	48.1	38.4	43.4	1 above	25	+ 6	10	- 4	2923	+320	260	-201
	10. IRELAND, SOUTH	58	30	49.8	40.6	45.2	2 above	28	- 1	4	- 6	3414	+438	195	-157
	-CHANNEL ISLANDS.	56	33	52.5	42.6	47.6	1 above	39	- 8	0	- 2	4099	+584	55	- 97

DISTRICTS. (See p. 284.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	30	10ths of in. 17 more	235	+12	Ins. 56.0	Ins. +10.8	5	0	10	0	1215	+167	29	+ 4
	1. SCOTLAND, EAST	5	7	0 (average)	185	+ 2	27.5	- 1.8	4	- 5	8	- 9	1289	+ 43	31	+ 1
	2. ENGLAND, N.E.	6	8	2 more	163	-10	21.0	- 3.4	6	- 3	12	- 6	1201	- 21	29	- 1
	3. ENGLAND, EAST	4	3	3 less	142	-27	18.0	- 6.2	11	0	20	0	1500	- 15	35	- 1
	4. MIDLAND COUNTIES	3	1	5 less	147	-18	19.4	- 6.8	8	- 3	14	- 5	1344	+ 28	33	+ 1
	5. ENGLAND, SOUTH	5	6	1 less	137	-23	19.3	- 7.6	8	- 3	15	- 6	1490	- 19	37	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	16	3 more	203	+12	40.9	- 4.0	6	- 2	12	- 4	1294	+ 4	31	0
	7. ENGLAND, N.W.	5	6	2 less	180	+ 1	31.1	- 1.3	8	- 1	14	- 2	1400	+108	34	+ 3
	8. ENGLAND, S.W.	5	9	1 less	168	-14	31.0*	- 5.2	6	- 6	11	-10	1648	+ 43	39	+ 1
	9. IRELAND, NORTH	7	11	2 more	221	+13	34.7	- 0.1	7	- 5	13	- 9	1264	+ 32	39	+ 1
	10. IRELAND, SOUTH	7	9	0 (average)	181	- 7	36.0	+10.5	10	- 3	19	- 5	1450	+ 51	35	+ 2
	- CHANNEL ISLANDS.	7	14	5 more	188	- 5	24.4	- 6.3	8	- 3	13	- 5	1924	+130	47	+ 3

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather continued very unsettled generally, especially in the west and north, where very frequent, and at times heavy rain was experienced. In the south-eastern and central parts of England the falls of rain were generally slight, and separated by dull dry intervals.

Temperature was low during the earlier half of the period, but subsequently rose quickly and became high generally, so that the mean for the week was rather above the normal in most districts; in Scotland, however, it was below or only equal to the normal. The absolute maxima were recorded on December 1st at the Scotch stations, and on the 2nd over England and Ireland; they were very high generally, ranging from the exceptional value of 59° in the Midland Counties and England N.W., 58° in Ireland S., and 57° in England N. and N.E., to 52° in Scotland N. The absolute minima, which occurred on November 29th, were very low in Scotland, ranging from 9° in Scotland E. (at Braemar), and 10° in Scotland N. (at Lairg), to 17° in Scotland W. Elsewhere they were much less low, ranging from 24° in England N.E. and N.W., to 30° in Ireland S., and to 33° in the Channel Islands.

Rainfall was much above the mean in Scotland N., and also exceeded it in Scotland W., England N.E., Ireland N. and the Channel Islands. In all other districts except Scotland E. and Ireland S. (where the fall just equalled the normal), there was a deficit, that in the Midland Counties being large.

Bright Sunshine was deficient in all districts except Scotland N. The percentage ranged from 20 in England E., and 19 in Ireland S., to 8 in Scotland E.

Barometer and Wind.—During the earlier part of the week depressions appeared in the south-western parts of our Islands, and over the southern parts of the North Sea, the winds mostly varying between North-East and North-West, and blowing freshly or strongly in places. During the latter part of the week a large and deep depression travelling north-eastwards skirted our extreme north-western and northern coasts, and this system, with its secondaries, caused strong South-Westerly to Westerly winds and gales in almost all parts of the Kingdom.

II.—DATA from which the SUMMARY on page 283 has been calculated.

DISTRICTS	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.								Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	47	25	42.0	32.9	37.5	- 3.0	0	32	6	1.03	+ 0.03	*	*	*	*
	Stornoway	49	27	42.9	32.9	37.9	- 2.5	3	32	7	4.10	+ 2.90	3.4	- 3.5	7	- 8
	Wick	47	20	42.9	30.0	36.5	- 3.2	3	43	6	1.07	+ 0.40	*	*	*	*
	Laing	45	10	37.8	25.5	31.7	- 6.5	0	72	7	2.40	+ 1.60	*	*	*	*
	Glencarron	51	18	44.3	30.6	37.5	- 0.5	6	42	7	5.06	+ 2.79	*	*	*	*
	Fort Augustus	51	11	44.8	29.8	37.3	- 2.1	8	45	6	2.37	+ 1.27	4.7	+ 2.5	10	+ 5
	Fort William	52	21	45.4	34.1	39.8	- 0.8	10	30	7	4.76	+ 2.74	5.7	+ 1.9	12	+ 5
1. SCOTLAND, E.	Nairn	50	18	43.6	29.4	36.5	- 2.2	4	45	6	1.04	+ 0.53	*	*	*	*
	Aberdeen	53	23	43.3	31.7	37.5	- 1.7	4	37	5	0.62	- 0.18	5.5	- 4.7	11	- 9
	Braemar	48	9	40.6	27.3	34.0	- 1.8	0	56	6	0.69	- 0.03	0.2†	- 5.3†	0†	- 11†
	Ochertyre	53	20	45.6	31.6	38.6	+ 0.1	10	39	5	0.89	- 0.11	*	*	*	*
	Leith	54	23	47.9	33.1	40.5	0.0	17	35	5	0.37	- 0.14	*	*	*	*
	Marchmont	53	19	43.9	32.1	38.0	0.0	5	36	5	0.80	- 0.04	6.0	- 4.2	12	- 8
2. ENGLAND, N.E.	Alnwick Castle	53	24	47.2	34.5	40.9	+ 0.7	15	30	7	1.69	+ 0.92	*	*	*	*
	Durham	54	24	46.0	35.3	40.7	+ 1.2	11	27	6	1.18	+ 0.58	5.3	- 4.9	10	- 10
	Shields	56	26	48.0	34.9	41.5	+ 1.5	17	29	6	0.86	+ 0.31	*	*	*	*
	Scarborough	54	30	49.1	36.6	42.9	+ 1.9	29	15	5	0.54	- 0.07	11.3	?	21	?
	York	57	28	48.4	36.0	42.2	+ 2.3	27	17	7	0.34	- 0.14	6.1	- 0.9	12	- 2
	Spurn Head	55	35	48.1	39.6	43.9	+ 2.9	23	7	3	0.25	- 0.25	*	*	*	*
3. ENGLAND, E.	Hillington	56	29	46.6	37.0	41.8	+ 1.8	13	21	3	0.12	- 0.50	8.0	- 2.3	15	- 4
	Yarmouth	55	30	48.7	36.9	42.8	+ 2.2	27	14	5	0.43	- 0.19	*	*	*	*
	Geldeston	56	29	49.2	37.0	43.2	+ 2.3	29	14	4	0.48	- 0.10	12.2	- 0.1	22	- 1
	Cambridge	57	28	49.1	36.0	42.6	+ 2.6	29	17	2	0.23	- 0.19	11.7	- 0.2	21	- 1
	Rothamsted	55	29	47.9	36.5	42.2	+ 2.2	25	15	6	0.33	- 0.25	11.6	+ 0.8	21	+ 1
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	57	30	49.0	36.7	42.9	+ 2.9	29	15	1	0.07	- 0.39	*	*	*	*
	Loughborough	57	28	49.1	37.0	43.1	+ 2.1	29	14	1	0.02	- 0.45	*	*	*	*
	Stamford (Duddington)	56	29	48.0	36.1	42.1	+ 1.9	25	17	2	0.07	- 0.58	*	*	*	*
	Cheadle	54	28	45.6	36.0	40.8	+ 1.8	10	24	5	0.12	- 0.52	*	*	*	*
	Shirley (near Solihull)	56	30	47.0	36.7	41.9	+ 1.4	14	22	3	0.04	?	*	*	*	*
	Churchstoke	55	30	46.6	37.8	42.2	+ 2.4	19	12	4	0.06	- 0.68	2.0	- 7.6	4	- 13
	Hereford	59	32	48.5	39.3	43.9	+ 2.9	25	8	4	0.06	- 0.56	*	*	*	*
	Cirencester	54	28	46.6	36.0	41.3	+ 1.4	13	24	5	0.14	- 0.54	5.8	- 4.2	10	- 8
	Oxford	55	31	47.6	37.7	42.7	+ 1.9	23	12	2	0.06	- 0.52	6.6	- 3.6	12	- 8
5. ENGLAND, S.	London	55	29	48.4	38.4	43.4	+ 1.9	25	10	4	0.30	- 0.16	3.0†	- 3.1†	5†	- 7†
	North Foreland	55	32	48.4	39.1	43.8	+ 0.8	25	8	2	0.81	?	*	*	*	*
	Cranley	55	31	48.6	37.7	43.2	+ 1.4	26	12	5	0.61	?	*	*	*	*
	Dungeness	55	28	50.1	39.1	44.6	+ 1.7	30	8	5	0.50	- 0.22	*	*	*	*
	Hastings (St. Leonards)	55	31	49.2	41.2	45.2	+ 2.4	26	2	5	1.45	+ 0.75	11.1	- 2.8	19	- 4
	Southampton	56	29	48.4	40.1	44.3	+ 1.9	24	5	4	0.37	- 0.33	6.5	- 5.5	11	- 10
	Hurst Castle	54	32	49.6	40.9	45.3	+ 1.3	28	3	6	0.55	- 0.12	*	*	*	*
	Shaftesbury	52	30	46.0	37.5	41.8	+ 2.0	11	19	6	0.19	- 0.59	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	54	25	46.6	35.0	40.8	- 0.5	13	28	6	3.88	+ 1.75	*	*	*	*
	Glasgow	52	25	45.6	35.1	40.4	+ 1.7	10	27	5	1.08	+ 0.18	7.2	+ 3.2	14	+ 5
	Ardrossan	54	23	48.1	36.6	42.4	+ 0.4	25	15	5	0.44	- 0.37	*	*	*	*
	Glenlee	52	17	45.6	31.3	38.5	- 0.5	10	40	4	2.16	+ 0.66	*	*	*	*
	Douglas (Isle of Man)	54	26	48.1	38.4	43.3	+ 0.2	24	10	6	0.52	- 0.50	5.0	- 7.2	9	- 14
7. ENGLAND, N.W.	Stonyhurst	53	26	45.7	36.9	41.3	+ 0.8	10	20	5	1.02	+ 0.01	7.0	- 1.3	13	- 2
	Blackpool	54	24	48.7	36.3	42.5	+ 1.4	27	16	4	0.76	- 0.07	8.2	+ 1.0	16	+ 1
	Manchester (Prestwich)	59	28	46.8	36.9	41.9	+ 1.7	13	22	5	0.44	- 0.36	6.0	?	11	?
	Liverpool Obsy. (Bidston)	56	31	48.6	38.0	43.3	+ 2.1	26	11	3	0.14	- 0.50	*	*	*	*
	Llandudno	56	33	49.9	39.9	44.9	+ 0.9	29	6	5	0.50	- 0.22	6.6	- 2.3	12	- 5
	Holyhead	54	36	50.0	41.6	45.8	+ 0.7	28	1	6	0.77	- 0.09	*	*	*	*
8. ENGLAND, S.W.	Llandovery	55	27	47.9	34.6	41.3	+ 0.5	17	30	6	0.96	- 0.22	*	*	*	*
	Pembroke	53	35	50.0	42.4	46.2	+ 0.7	29	0	6	0.73	- 0.20	5.6	- 5.8	10	- 11
	Clifton	56	32	48.9	38.7	43.8	+ 2.8	26	9	4	0.55	- 0.22	*	*	*	*
	Arlington (N. Devon)	52	30	47.6	37.9	42.8	+ 1.1	23	11	5	1.79	+ 0.41	*	*	*	*
	Cullompton	55	26	49.0	37.5	43.3	+ 0.8	28	13	4	0.21	- 0.59	5.6	- 3.9	10	- 7
	Falmouth	54	35	49.9	43.0	46.5	0.0	32	0	7	2.39	+ 1.19	9.0	- 4.7	16	- 7
	Plymouth	54	30	50.1	40.3	45.2	+ 0.2	30	5	5	0.41	- 0.51	3.5	- 8.2	6	- 15
	Prawle Point	53	31	50.0	39.0	44.5	- 0.7	30	8	6	0.43	- 0.27	*	*	*	*
9. IRELAND N.	Malin Head	51	33	47.6	39.4	43.5	+ 0.7	21	7	7	1.00	?	*	*	*	*
	Londonderry	54	32	48.4	36.8	42.6	+ 0.9	26	15	7	1.35	+ 0.40	*	*	*	*
	Edenfel (Omagh)	53	?	46.6	?	?	?	?	?	5	1.36	+ 0.56	*	*	*	*
	Belmullet	54	35	50.6	42.0	46.3	+ 2.6	30	0	7	1.14	- 0.21	*	*	*	*
	Markree Castle	53	33	48.6	38.3	43.5	+ 2.5	26	10	7	1.22	+ 0.32	7.8	- 3.2	15	- 5
	Armagh	53	29	46.3	35.8	41.1	+ 0.8	12	25	7	0.79	+ 0.19	5.7	- 6.5	11	- 11
	Donaghadee	54	32	48.6	38.1	43.4	+ 0.4	26	11	6	0.49	- 0.11	*	*	*	*
10. IRELAND S.	Dublin	56	30	48.9	38.1	43.5	+ 0.5	27	11	6	0.62	+ 0.06	10.7	- 3.6	20	- 7
	Parsonstown	55	31	48.1	38.3	43.1	+ 2.1	23	10	7	0.60	- 0.18	7.3	- 6.0	14	- 9
	Kilkenny	55	30	48.0	37.0	42.5	- 0.5	25	14	6	0.48	- 0.14	*	*	*	*
	Roche's Point	56	35	50.1	42.0	46.2	+ 1.2	29	0	7	1.20	+ 0.04	*	*	*	*
	Valencia	56	39	52.0	44.7	48.4	+ 2.2	45	0	7	1.13	- 0.12	12.3	+ 0.5	22	0
	Killarney	58	32	51.5	41.0	46.3	+ 2.4	34	3	7	1.22	?	*	*	*	*
	Foynes	55	35	49.7	43.2	46.5	+ 2.8	32	0	7	0.92	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	38	52.0	43.0	47.5	- 0.4	39	0	7	1.67	+ 0.72	3.3	?	6	?
	Jersey	56	33	53.0	42.1	47.6	+ 1.6	39	0	6	1.10	+ 0.23	12.2	- 2.0	21	- 4

Stations marked *M* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

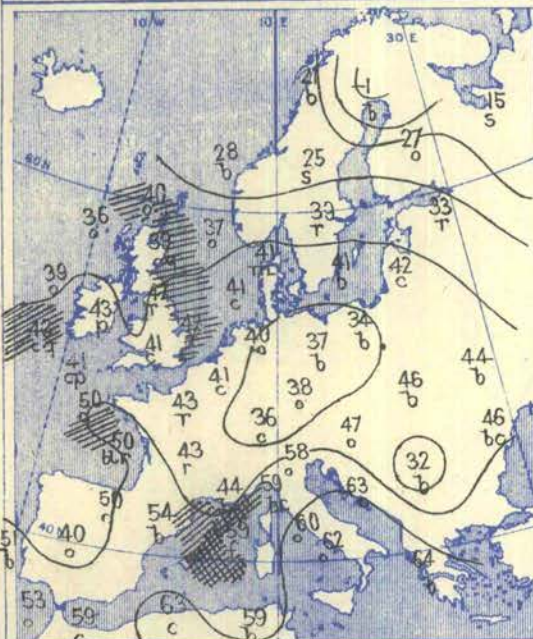
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 27th November.

Temperature and Weather.

8 a.m.

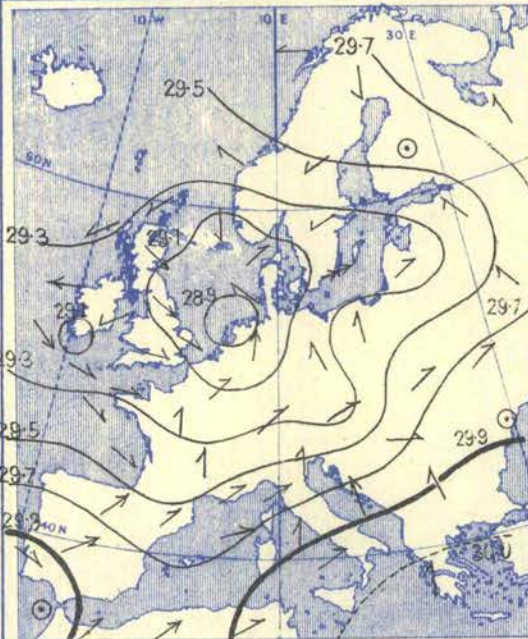


Weather in morning fine over central England and the central and southern parts of Scotland as well as in the west of Norway. Cloudy or dull in nearly all other parts of Europe, with rain in several parts of our Islands and France, and a thunderstorm at Rochefort. Rain falling also over the Baltic provinces and the south of Sweden, and snow at Faerder, Hernösand and Archangel. Snow or hail falling later at several of our own western and northern stations, and rain in the south of England and many parts of the Continent. Thunder and lightning occurring over the Channel and Bay of Biscay.

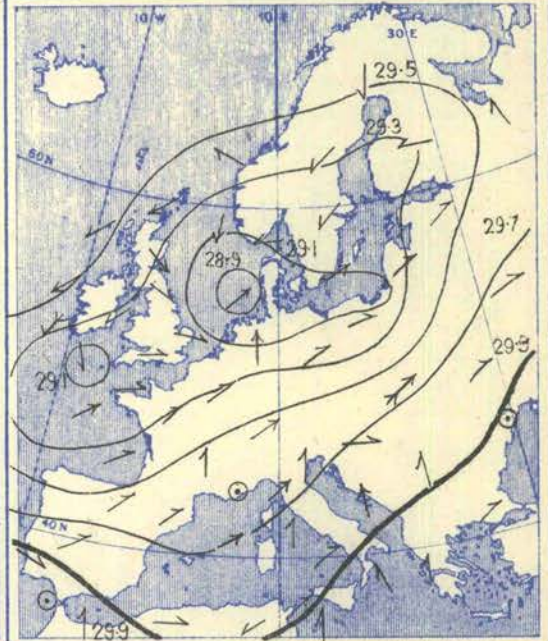
Temperature fallen a little in most parts of north-western and northern Europe but risen elsewhere. Morning readings highest, 64° at Athens, 63° at Lesina and Algiers, and 62° at Naples; above 55° at several of the Mediterranean and Adriatic stations. Lowest, -1° Fahr. at Haparanda, +15° at Archangel, 20° at Uleaborg, and 21° at Bodö. Rising during day to 45° and upwards in many parts of the United Kingdom, and to 52° at Jersey; exceeding 60° over southern Europe as a whole, and reaching 75° at Palermo. Frost occurring over our Islands at night.

Barometer and Wind.

8 a.m.



6 p.m.



Wind light to fresh from between East and North over the greater part of Ireland and Scotland, but Westerly over England, the north and west of France, and the Spanish Peninsula. Southerly or South-Westerly over Italy, south Germany, and the central and southern parts of France; South-Easterly over eastern Germany and Denmark. Easterly over Scandinavia and northern Russia, with a gale at Hangö. Subsequently increasing to a gale from the North-Eastward in the south of Ireland; backing to the South-Westward in the west of France.

Barometer highest, 30.0 ins. and upwards over Greece and Asia Minor; 29.9 ins. and upwards over the southern parts of the Spanish Peninsula. Lowest, 29.9 ins. and less in a depression over the southern parts of the North Sea; 29.1 ins. and less in two other disturbances—one lying over the south of Ireland and the other near Stockholm. North Sea depression subsequently moving to the Danish coasts; Irish disturbance passing south-eastwards to the mouth of the English Channel; barometer rising briskly in the west and north of our Islands.

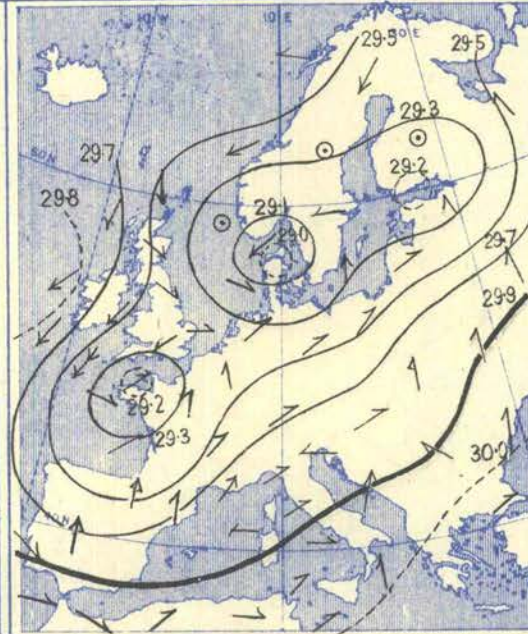
Monday, 28th November.

Temperature and Weather.

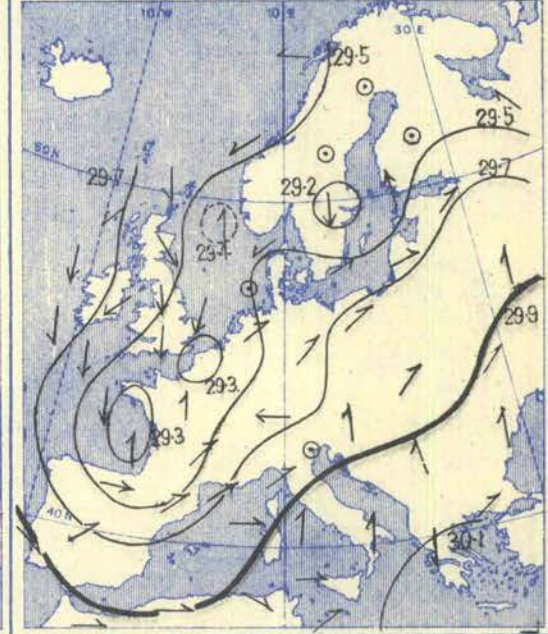
8 a.m.



8 a.m.



6 p.m.



Weather in morning fine in the western parts of our Islands generally, but with showers of hail or sleet at some of the Irish stations, as well as on the north-east coast of Great Britain. Dull over the south of England and the greater part of the Continent, with rain over the Spanish Peninsula and the west of France, as well as at several stations in Denmark and the south of Scandinavia, and also at Lemberg and Rome; snow falling at Faerder and Archangel. Rain, hail or snow falling later over nearly the whole of Europe—heavily in places. Thunderstorms occurring at some of the southern French stations.

Temperature fallen in our Islands and the northern parts of the Continent. Morning readings highest, 65° at Palermo and Malta, and 63° at Brindisi, above 55° at several of the Mediterranean and Adriatic stations. Lowest, 20° at Archangel and Haparanda, and 21° at Bodö; below the freezing point in most parts of Scandinavia and northern Russia, and very little above it in the northern and central parts of Great Britain, where the thermometer remained below 40° all day. Exceeding 50° later in the west of France, and exceeding 60° in many parts of southern Europe. Very sharp frost over Scotland at night.

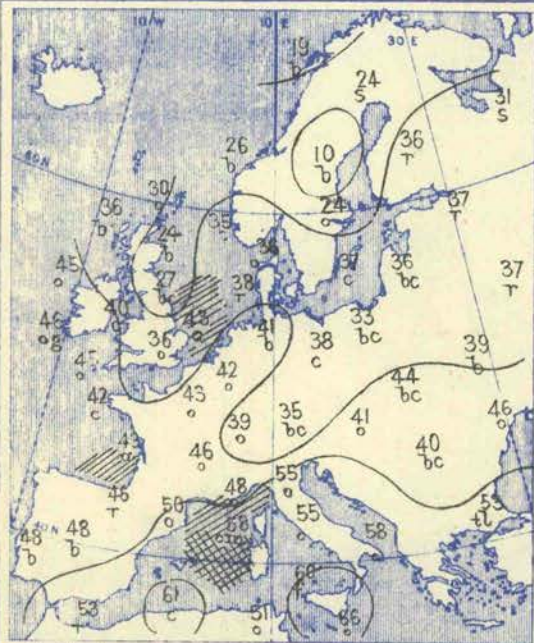
Wind Northerly (North-West to North East) in our Islands, and strong to a gale in force on some of the more exposed parts of our western and northern coasts; Westerly or North-Westerly over the Bay of Biscay and the Portuguese coasts; light from the Southward over central France, and moderate to strong from the South-Westward over Germany and the Baltic, as well as in Italy. Southerly or South-Easterly in Russia, Easterly or North-Easterly over Scandinavia. No important change occurring over western Europe during day, but Northerly wind increasing on many parts of the English coasts.

Barometer highest, 30.0 ins. and upwards over South-Eastern Europe, 29.8 ins. and upwards in an area lying to the west of our Islands. Lowest, 29.0 ins. and less in a well marked depression with its centre over the Kattegat; 29.2 ins. and less in another disturbance with its centre over the Channel Islands. Both depressions moving eastwards later and partially filling up; barometer beginning to fall again on our extreme north-west coasts in evening.

Tuesday, 29th November.

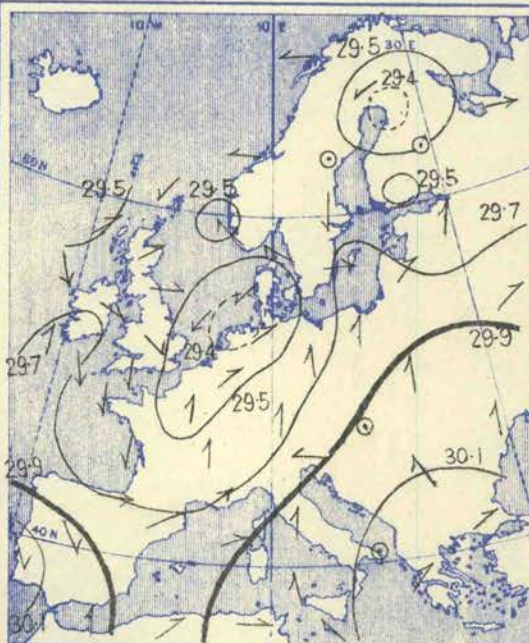
Temperature and Weather.

8 a.m.

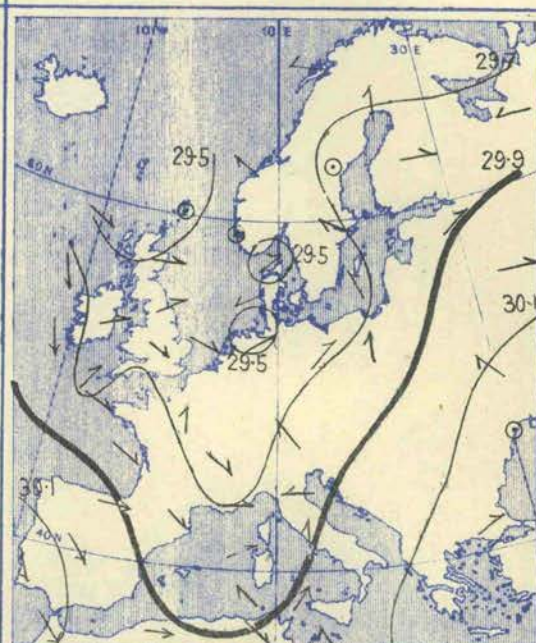


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the northern parts of Great Britain and the west of Norway, and also in Germany, and the greater part of the Spanish Peninsula. Cloudy or dull elsewhere with rain at some of the Irish stations, as well as in Holland, Denmark, the northern and central parts of Russia, and at Biarritz and Bilbao; snow falling in the extreme northern parts of Sweden and Russia. Thunderstorm reported at Constantinople. Snow occurring later at several of our own northern stations, and rain in many parts of England, Ireland, France and Italy. Thunderstorm at Nice in afternoon.

Temperature fallen very decidedly in the north of our Islands. Morning readings highest, 66° at Malta, 64° at Patras, and 65° at Athens; above 53° at many of the Mediterranean stations. Lowest, (1) 10° at Hernösand, 17° at Karlstad, and 19° at Bodø; (2) 20° at Nairn, 23° at Wick, (considerably below the freezing point over the northern parts of Great Britain generally). Remaining below 32° all day at some of the Scotch stations, but rising quickly at night. Daily maxima below 45° in all but the south-western parts of the United Kingdom; exceeding 50° in the south of France and exceeding 60° in Italy.

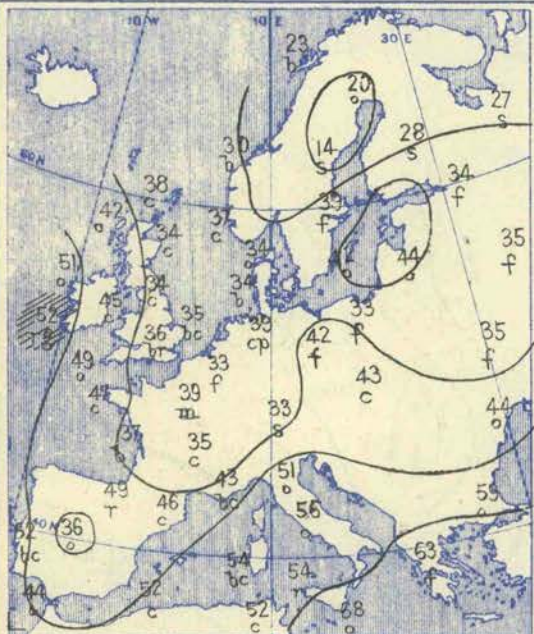
Wind moderate to strong from the Northward or North-Westward over England and the north and west of France, and the greater part of the Spanish Peninsula. Light from the Southward over Italy, central France, Germany, Austria, and the south of Russia, variable over northern Russia; Northerly in Sweden. Moderate from the Southward or South-Westward on our own extreme western coasts, but variable in Scotland, and Easterly in Norway and Denmark. Subsequently backing to the Westward or South-Westward over England, but shifting to the North-Westward in Ireland and the west of Scotland.

Barometer highest, 30.2 ins. and upwards in an anticyclone covering the whole of south-eastern Europe, and also in another system off the Portuguese coasts. Lowest, 29.4 ins. and less in two depressions,—one lying over the Netherlands, and the other over Lapland; 29.5 ins. and less in three other disturbances,—one off the north-west of Scotland, another off the south-west of Norway, and the third over the Gulf of Finland. Scotch disturbance subsequently moving eastwards, and barometer rising briskly on our extreme western coasts.

Wednesday, 30th November.

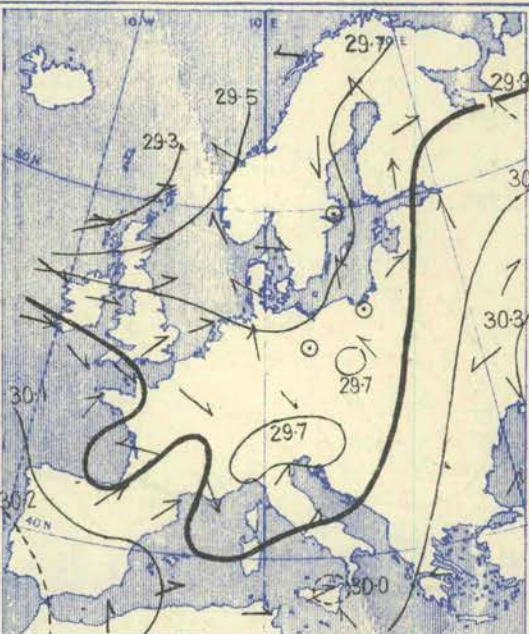
Temperature and Weather.

8 a.m.

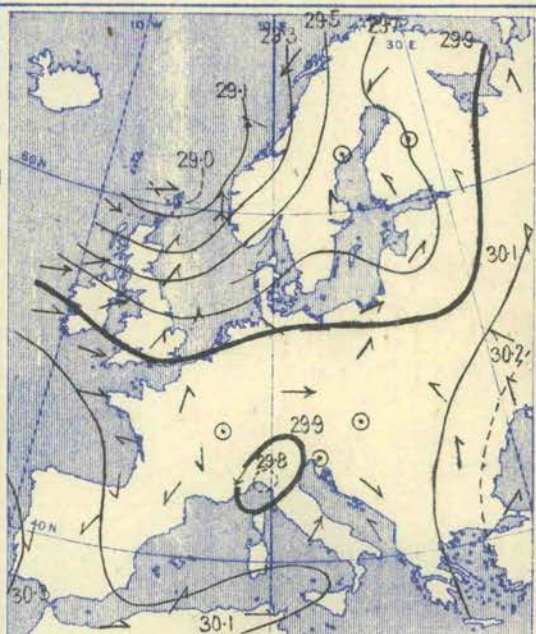


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over England, the Netherlands, and the greater part of France, as well as in the west of Norway. Cloudy or dull elsewhere, with rain in Ireland, as well as at Copenhagen and Biarritz; snow falling at Belfort and Munich as well as at some stations in Sweden and northern Russia. Fog very prevalent over the central and southern parts of Russia. Rain falling later over nearly the whole of western and northern Europe, and also in Austria and Italy. Thunder occurring at Nice.

Temperature risen in our Islands—rapidly in Scotland—and also in Scandinavia, but fallen elsewhere. Morning readings highest, 68° at Malta, 63° at Athens and 57° at Pesaro; above 50° at most of the Mediterranean stations, and also on the west coast of Ireland. Lowest, (1) 14° at Hernösand, and 20° at Haparanda; (2) 30° at Le Mans, and 33° at Brussels and Munich; lowest in our Islands, 33° at Dungeness. Further rise taking place over our Islands later, and thermometer reaching 50° or more in several places in evening or night. Exceeding 60° over the Mediterranean, and reaching 72° at Palermo.

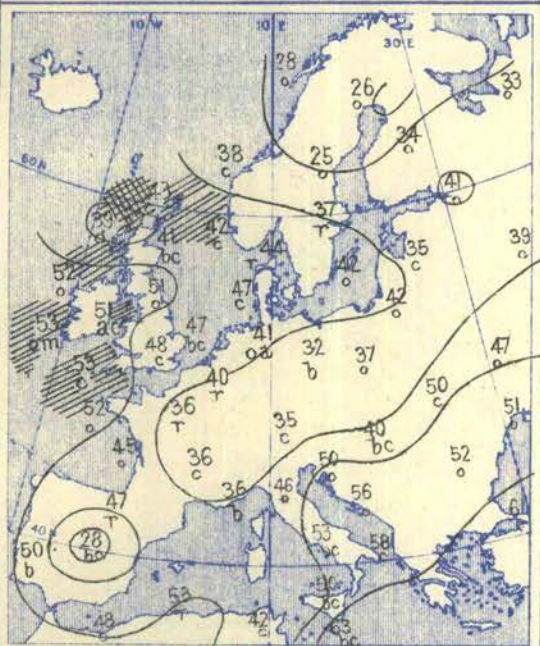
Wind light to moderate from the Westward or South-Westward in our Islands, and from the Eastward or South-Eastward on the Eastern shores of the North Sea. Variable in France and Germany, South-Westerly or Westerly over Italy and the Spanish Peninsula. Southerly or South-Easterly over the northern and central parts of Russia, variable in Sweden. Subsequently increasing in force on all our northern coasts, and blowing a gale from the Westward or North-Westward in Scotland.

Barometer highest, 30.3 ins. and upwards in an anticyclone over the southern parts of Russia, 30.2 ins. and upwards in another system lying to the southward and south-westward of Spain. Lowest, 29.3 ins. and less in a depression lying off the north of Scotland; 29.7 ins. and less in another disturbance over northern Italy and the extreme south-east of France. Scotch depression subsequently moving eastwards and also spreading out a little to the southward; barometer falling briskly on our northern coasts.

Thursday, 1st December.

Temperature and Weather.

8 a.m.

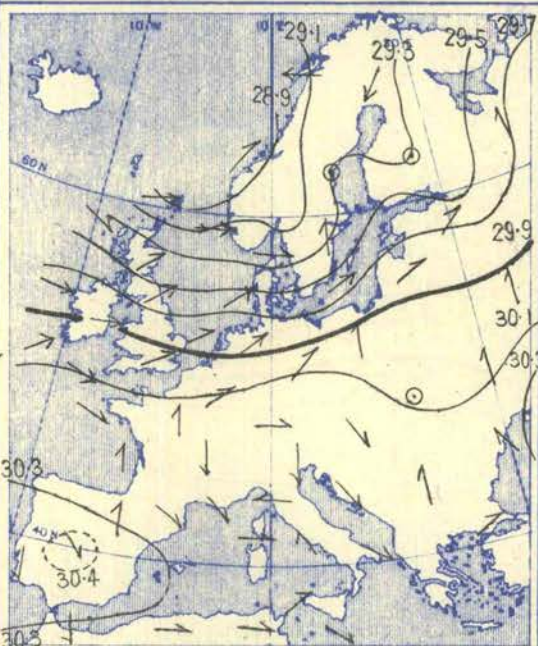


Weather in morning cloudy or dull over the greater part of western and northern Europe, with rain in the extreme north-west of our Islands, as well as in many parts of France, Belgium, Denmark and the south of Scandinavia. Fine over Austria, the Spanish Peninsula, and the southern parts of France and Italy. Rain falling later in the west and north of our Islands generally, and also at many of the Continental stations—heavily at Stornoway.

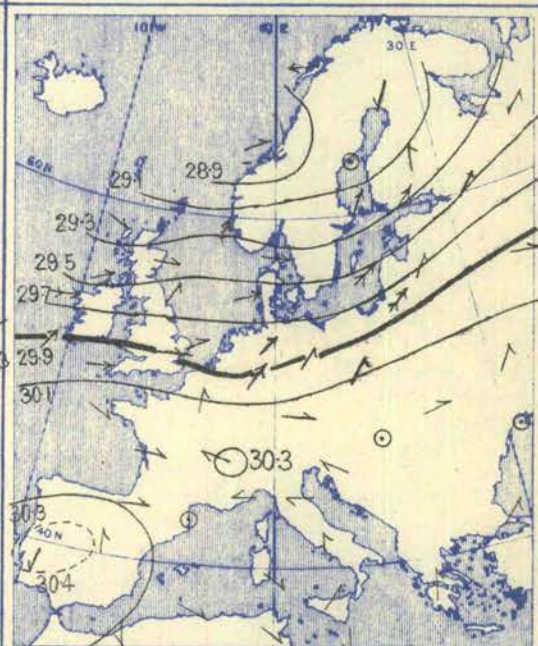
Temperature risen over our Islands and northern Europe, but fallen elsewhere. Morning readings highest, 63° at Malta, 61° at Constantinople, and 58° at Brindisi; above 50° in many parts of Ireland, England, and the south of Scotland. Lowest, (1) 25° at Hernösand, 26° at Haparanda, and 28° at Bodö; (2) 29° at Limoges, and 32° at Belfort and Berlin. Rising during day to between 50° and 55° in nearly all parts of our Islands, and to 56° at Valencia (Ireland); exceeding 55° over southern Europe generally and reaching 70° at Palermo.

Barometer and Wind.

8 a.m.



6 p.m.



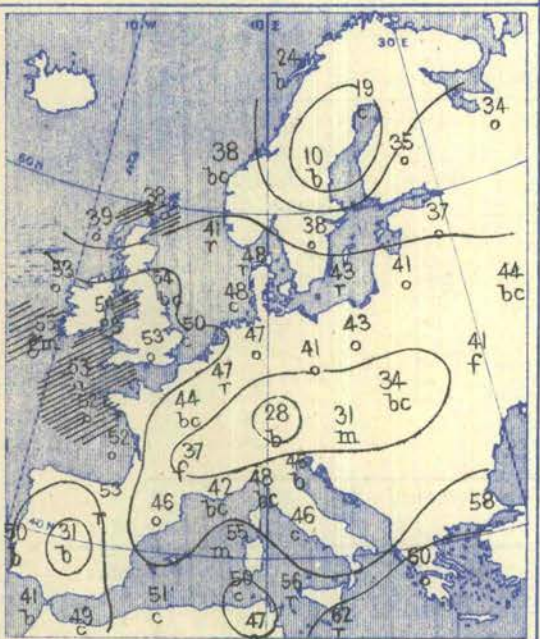
Wind strong from the Westward on our western coasts, and from the North-Westward in the north of Scotland, with a gale at Wick and Malin Head. Light to moderate from the South-Westward over the eastern and central parts of England, and also over the Netherlands and Germany, and strong to a gale from the same quarters over Denmark, the Baltic, and the south of Scandinavia; Easterly in the extreme northern parts of Russia and Scandinavia. Southerly over the western and central parts of France; variable over the Spanish Peninsula, Italy, and the south of France; light from the Southward over the greater part of Russia. Subsequently falling light in the north of Scotland; no important change occurring elsewhere.

Barometer highest, 30.4 ins. and upwards over central Spain; 30.3 ins. and upwards in the south of Russia; 30.1 ins. and upwards over the southern parts of Europe generally. Lowest, 28.9 ins. and less in a large and deep depression lying to the westward of the Norwegian coasts; small secondary disturbances reported over Scandinavia and the northern parts of the North Sea. Depression in north subsequently moving north-eastwards, but further secondary systems advancing over our Islands and the North Sea.

Friday, 2nd December.

Temperature and Weather.

8 a.m.

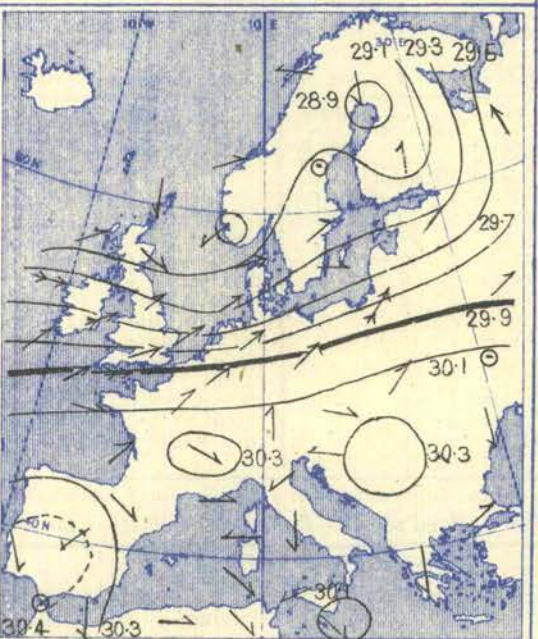


Weather in morning cloudy or dull over nearly the whole of western, northern, and central Europe, with showers at some of our own western stations, and steady rain in Denmark and the south of Scandinavia, as well as at Brussels, Lorient, and Biarritz. Fine over the northern parts of Scandinavia, and also over the Spanish Peninsula, northern Italy, Austria, and the extreme south of France; rainy at Palermo and Malta. Rain falling later over nearly the whole of western and northern Europe, but amounts mostly slight.

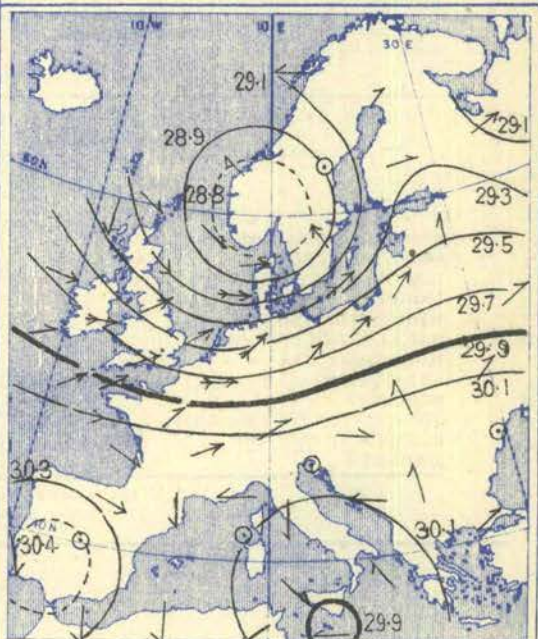
Temperature fallen in Italy and Austria, and also in the north of Scandinavia; risen elsewhere. Morning readings highest, 62° at Malta, 60° at Athens and Patras, and 58° at Constantinople; above 50° in nearly all parts of Ireland and England. Lowest, (1) 10° at Hernösand, 19° at Haparanda, and 24° at Bodö; (2) 28° at Munich, and 31° at Buda-Pesth. Rising during day to between 50° and 55° in nearly all parts of our Islands and France, and slightly above the latter point in some few places. Exceeding 55° in many parts of southern Europe, and exceeding 60° over southern Italy.

Barometer and Wind.

8 a.m.



6 p.m.



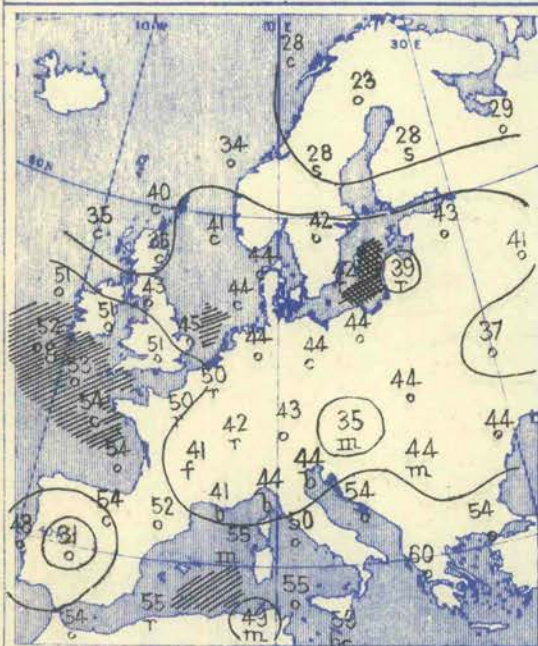
Wind strong to a gale from the South-Westward over Ireland, the Netherlands, Denmark, North Germany, and the Baltic; light to moderate from the Westward in Scotland, variable over the northern parts of Scandinavia. Light and variable over southern and south-eastern Europe generally. Subsequently increasing to a very strong gale from the Westward over the northern parts of Ireland and England, and from the North-Westward in the east of Scotland.

Barometer highest, 30.4 ins. and upwards over the central and south-western parts of the Spanish Peninsula; 30.2 ins. and upwards in an anticyclone embracing nearly all the more southern parts of the Continent. Lowest, 28.9 ins. and less in two well-marked depressions, one lying over Lapland, and the other with its centre near Skudenes. Rather deep secondary disturbance moving eastwards later across the northern parts of Scotland, and joining the depression previously existing off the Norwegian coasts.

Saturday, 3rd December.

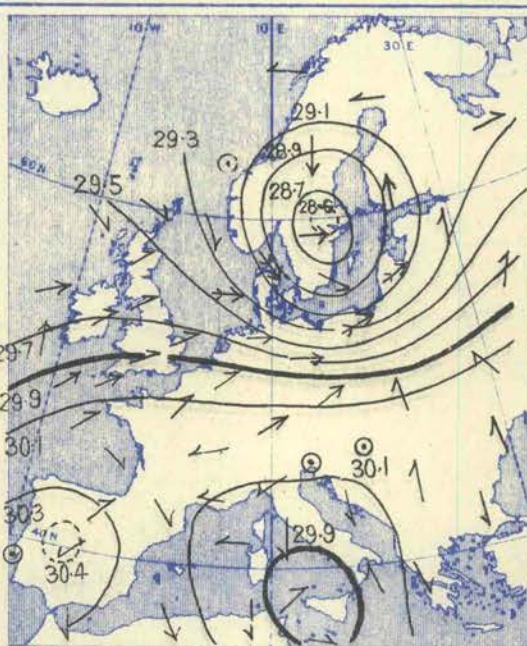
Temperature and Weather.

8 a.m.

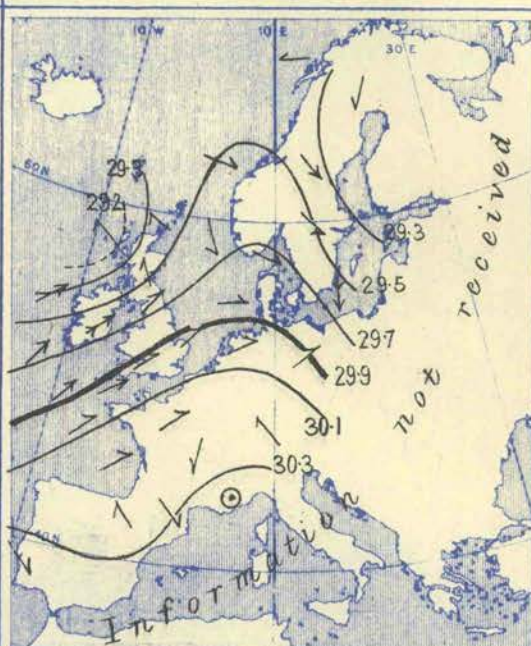


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with rain at several of the English, Irish, and French stations, and also over the Baltic and the Gulf of Finland; snow falling at Hernösand and Kuopio. Fair or fine in the north of Scotland, as well as in northern Italy, and the extreme south of France. Rain falling later in nearly all parts of western Europe—slightly in most places, but heavily at Stormoway; sky clearing temporarily in the south of Ireland.

Temperature fallen in our Islands and Denmark, risen in most other countries. Morning readings highest, 63° at Brindisi, 60° at Patras, and 59° at Athens and Malta; above 50° in the west of France, and also at several of our own western and southern stations. Lowest, 23° at Haparanda and Uleaborg, 28° at Kuopio and Hernösand, and 29° at Archangel. Rising during day to between 50° and 55° in all but the extreme northern parts of our Islands, and to 56° at Scilly and Cambridge; exceeding 65° also at some of the French stations.

Wind light to moderate from the South-Westward over the greater part of our Islands, but Southerly at Malin Head and Valencia (Ireland). Strong to a gale from the Westward over Denmark and the south of Sweden, and from the South-Westward over the Baltic; Southerly in Russia; Easterly or North-Easterly over the northern parts of Finland and Scandinavia. Variable over the Spanish Peninsula and the south of France; calm in Austria; Northerly over northern Italy. Subsequently backing to the Southward or South-Eastward in Scotland, and increasing to a gale in the north.

Barometer highest, 30.43 ins. at Lisbon; 30.2 ins. and upwards in an anticyclone lying over the Spanish Peninsula and the south of France, and also in another system over the Black Sea and the extreme south of Russia. Lowest, 28.6 ins. and less in a deep depression with its centre a little to the north-eastward of Stockholm (gradients steep over northern Europe generally), 29.8 ins. and less in a shallow system off the north of Sicily. Swedish depression subsequently moving away to the eastward. New disturbance appearing in evening off the west of Scotland.

GENERAL NOTES.

Over nearly the whole of Europe the weather of last week was extremely unsettled, some improvement being reported, however, over the southern countries during the latter half of the time. At the commencement of the period the conditions in the west and north were influenced partly by a secondary depression which formed off the east of England at the close of the previous week, and which afterwards moved north-eastwards and increased in depth, and partly by a new disturbance which advanced south-eastwards over Ireland and the south-west of England on November 27th the latter passing eastwards along the north of France and gradually dispersing. In the rear of the latter system the wind blew very strongly from the Northward over our Islands, with snow or sleet in some of the northern districts.

On the 29th a shallow "V"-shaped depression spread over the United Kingdom from the Atlantic, but this soon broke up, and for the remainder of the week the weather was influenced mainly by a deep depression, which travelled eastwards along our northern coasts and on to Scandinavia, and partly by some secondary systems which moved a little to the southward of the main disturbance. The passage of these disturbances was marked by gales from the Westward (South-West to North-West) over nearly the whole of north-western and northern Europe, and very frequent rains, with snow in some parts of Scandinavia and Russia.

Temperature was at first low for the time of year, with a severe frost over Scotland on November 29th. Later on, however, it rose considerably, and during the latter half of the week was extremely high over Ireland and England, where the thermometer on December 2nd and 3rd rose to 55° or a little more, the nights being also unseasonably mild.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 284.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	4.7	?	10	?	WESTBOURNE (Emsworth)	11.0*	0.0	19*	0
STRATHPEFFER SPA	5.9	- 1.7	12	- 4	WATERGATE (Emsworth)	10.1	?	18	?
EDINBURGH	4.4	- 4.4	9	- 8	BRIGHTON	8.5	- 3.2	15	- 7
MORPETH	4.8	?	8	?	EASTBOURNE	9.3	- 2.8	16	- 6
NEWCASTLE-ON-TYNE	3.1	?	6	?	VENTNOR HOSPITAL	12.9	?	23	?
OSWALDKIRK (Yorkshire)	5.7	- 4.1	11	- 7	SOUTHPORT	10.2	?	19	?
HOLLESLEY BAY	12.0	?	21	?	COLWYN BAY	6.7	?	12	?
SHEFFIELD	11.3	?	21	?	TENBY	9.0	- 2.2	16	- 4
WORKSOP	8.3	- 0.7	15	- 1	NEWQUAY	4.2	- 9.8	7	- 18
THURCASTON (Leicestershire)	11.7	+ 2.0	22	+ 5	TORQUAY	6.4*	- 6.0	11*	- 11
PLUMSTEAD COMMON	4.6	?	8	?	GUERNSEY	7.9*	- 3.2	13*	- 5
MARGATE	6.4	- 6.1	11	- 10					

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.									Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the week.			Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees).		Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.	
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.								
Week ending Nov. 12th, 1898	Cranley	61	31	55.6	41.3	48.5	+ 4.4	48	2	0	—	?	—	—	—	—	
" " " 19th, "	Newquay	—	—	—	—	—	—	—	—	3	0.07	- 0.95	25.2	+ 5.2	39	+ 8	
" " " " "	Ochtertyre	55	32	52.4	39.1	45.8	+ 5.3	39	8	—	—	—	—	—	—	—	
" " " " "	Churchstoke	60	32	53.1	42.0	47.6	+ 5.8	39	0	1	0.01	- 0.79	4.9	- 9.5	8	- 15	
" " " " "	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	17.0	?	26	—	
" " " 26th, "	Clifton	53	33	47.0	41.5	44.3	+ 2.3	18	1	7	2.63	+ 1.85	—	—	—	—	

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C. ; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW ; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 49.]
Third Series.

WEEK ENDING SATURDAY, DECEMBER 10TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 290.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	54	27	47.9	37.8	43.0	4 above	Day-deg. 25	Day-deg. +15	Day-deg. 12	Day-deg. -10	Day-deg. 2270	Day-deg. +317	Day-deg. 508	Day-deg. -243
	1. SCOTLAND, EAST	59	25	49.5	38.5	44.2	7 above	30	+19	10	-18	2564	+222	549	-258
	2. ENGLAND, N.E.	60	33	52.5	42.5	47.7	8 above	40	+26	0	-22	2906	+355	379	-267
	3. ENGLAND, EAST	57	32	52.7	42.9	48.0	9 above	42	+27	0	-25	3260	+312	450	-281
	4. MIDLAND COUNTIES	59	34	52.6	44.0	48.4	9 above	45	+28	0	-26	3174	+254	460	-293
	5. ENGLAND SOUTH	58	37	53.2	46.2	49.9	9 above	55	+32	0	-14	3632	+399	250	-293
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	57	29	50.6	42.9	46.9	7 above	34	+18	0	-18	2807	+319	302	-258*
	7. ENGLAND, N.W.	61	34	53.2	45.2	49.4	8 above	52	+34	0	-16	3122	+393	249	-281
	8. ENGLAND, S.W.	58	36	53.6	46.3	50.1	8 above	57	+29	0	-10	3477	+417	222	-181
	9. IRELAND, NORTH	57	28	51.3	41.4	46.6	6 above	35	+19	2	-15	2958	+339	262	-216
	10. IRELAND, SOUTH	59	37	53.2	45.4	49.5	6 above	53	+27	0	-12	3467	+465	195	-169
	—CHANNEL ISLANDS—	59	45	56.1	49.1	52.8	7 above	76	+34	0	-3	4175	+618	55	-100

DISTRICTS. (See p. 290.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	10ths of in. 40	10ths of in. 26 more	242	+13	Ins. 60.0	+13.5	5	+1	10	+1	1220	+169	28	+4	
	1. SCOTLAND, EAST	6	12	5 more	191	+4	28.7	-1.3	11	+3	23	+8	1300	+46	30	+1	
	2. ENGLAND, N.E.	5	3	3 less	168	-9	21.3	-3.6	13	+3	25	+6	1214	-18	29	0	
	3. ENGLAND, EAST	4	10	4 more	146	-27	19.0	-5.8	12	0	21	0	1512	-15	35	0	
	4. MIDLAND COUNTIES	5	9	3 more	152	-17	20.3	-6.5	10	+1	20	+2	1354	+29	32	0	
	5. ENGLAND, SOUTH	5	11	5 more	142	-23	20.4	-7.2	8	-3	14	-5	1498	-21	26	-1	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	19	6 more	209	+13	42.8	-3.4	7	0	14	0	1331	+3	31	0	
	7. ENGLAND, N.W.	6	8	0 (average)	186	+2	31.9	-1.2	9	+2	16	+3	1409	+110	34	+3	
	8. ENGLAND, S.W.	6	20	10 more	174	-13	33.0	-4.2	12	+1	22	+1	1660	+44	39	+1	
	9. IRELAND, NORTH	7	13	4 more	228	+15	36.0	+0.4	9	-1	18	-2	1273	+31	39	+1	
	10. IRELAND, SOUTH	6	10	1 more	187	-6	37.0	+0.6	10	-2	18	-5	1460	+49	34	+1	
	—CHANNEL ISLANDS—	6	14	5 more	194	-5	25.8	-5.8	13	+2	22	+2	1937	+132	47	+3	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period was extremely mild, with frequent rain in all parts of the Kingdom. In the north-west of Scotland the rainfall was unusually heavy, and in most other localities it exceeded the average. Over the south of Scotland, the north of England, and the east of Ireland, however, the fall was comparatively slight.

Temperature was much above the mean, the excess ranging from 4° in Scotland N., and from 6° in Ireland to as much as 8° or 9° over England. The absolute maxima, recorded on the 5th or 6th, were again exceptionally high, ranging from 61° in England N.W. (at Llandudno), 60° in England N.E. (at York), and 59° in Scotland E., the Midland Counties, Ireland S. and the Channel Islands, to 54° in Scotland N. The lowest of the minima were registered either on the 8th or 9th, and varied from 25° in Scotland E., to 37° in England S. and Ireland S., and to 45° in the Channel Islands. During the earlier part of the week the minima were very high, the thermometer in many cases not falling to 50°.

Rainfall varied a good deal in different localities, but was more than the mean in all districts except England N.E. and N.W. In the north of Scotland the fall amounted to nearly three times as much as the mean. The greatest falls at any individual stations were 9.17 ins. at Fort William, 6.72 ins. at Glencarron, 4.87 ins. at Fort Augustus, 4.68 ins. at Lauderdale, and 3.06 ins. at Arlington.

Bright Sunshine did not differ materially from the mean generally, but was rather in excess in the north-east of Great Britain. The percentage of the possible duration ranged from 25 in England N.E., 23 in Scotland E., and 23 in England S.W. and the Channel Islands to 14 in England S. and Scotland W., and to 10 in Scotland N.

Barometer and Wind.—Large and deep depressions moving north-eastwards continued to skirt our extreme north-western and northern coasts, while secondary disturbances occasionally passed more directly over us. South-Westerly to Westerly winds consequently prevailed very generally over our Islands and frequently blew with the force of a strong breeze or gale—especially in the west and north.

II.—DATA from which the SUMMARY on page 289 has been calculated.

DISTRICTS	NAMES-OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall			Bright Sunshine				
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sunburgh Head	50	35	46.9	39.6	43.4	+ 3.5	20	7	7	1.36	+ 0.36	*	*	*	*
	Stornoway	52	29	48.4	36.0	42.5	+ 2.6	29	17	7	2.78	+ 1.51	3.8	- 2.1	8	- 6
	Wick	52	32	48.1	37.1	42.8	+ 3.9	26	14	6	0.87	+ 0.15	*	*	*	*
	Lairg	50	27	45.2	34.6	40.1	+ 2.7	9	30	7	1.89	+ 1.07	*	*	*	*
	Glencarron	52	28	48.1	38.8	43.6	+ 6.2	25	9	7	6.72	+ 4.47	*	*	*	*
	Fort Augustus	54	28	48.5	37.1	43.0	+ 4.3	28	14	7	4.87	+ 3.75	1.7	0.0	4	0
	Fort William	54	31	49.9	41.4	45.8	+ 5.8	29	2	7	9.17	+ 7.10	1.0	- 1.7	2	- 4
1. SCOTLAND, E.	Nairn	55	30	49.4	37.3	43.6	+ 5.5	31	13	7	1.44	+ 0.94	*	*	*	*
	Aberdeen	57	34	49.7	38.9	44.5	+ 6.2	31	9	6	0.45	- 0.33	16.6	+ 7.3	35	+16
	Braemar	52	25	44.9	35.6	40.4	+ 5.2	8	25	7	1.97	+ 1.27	6.5†	+ 1.5†	14†	+ 4†
	Ochertyre	54	30	50.1	39.6	45.1	+ 7.4	32	7	6	2.78	+ 1.80	*	*	*	*
	Leith	59	34	53.0	41.1	47.3	+ 7.4	41	3	5	0.39	- 0.13	*	*	*	*
	Marchmont	55	31	49.6	38.7	44.4	+ 7.1	31	9	5	0.25	- 0.55	14.3	+ 5.4	30	+12
	Alnwick Castle	58	34	52.5	42.0	47.5	+ 8.4	39	0	7	0.35	- 0.40	*	*	*	*
2. ENGLAND, N.E.	Durham	58	33	51.4	41.4	46.6	+ 8.0	35	2	5	0.14	- 0.46	12.7	+ 8.9	37	+17
	Shields	59	23	53.0	42.3	47.9	+ 8.7	42	0	3	0.09	- 0.45	*	*	*	*
	Scarborough	59	35	52.0	41.8	47.1	+ 7.0	37	1	4	0.34	- 0.26	11.9	?	23	?
	York	60	34	53.7	43.1	48.6	+ 9.7	46	0	5	0.64	+ 0.15	4.9	- 1.3	9	- 4
	Spurn Head	56	38	52.1	44.6	48.5	+ 8.6	46	0	3	0.36	- 0.12	*	*	*	*
	Hillington	56	32	51.8	41.9	47.1	+ 8.4	36	0	3	0.97	+ 0.37	10.2	+ 0.5	19	+ 1
	Yarmouth	55	36	52.3	43.1	47.9	+ 8.7	41	0	4	0.90	+ 0.28	*	*	*	*
3. ENGLAND, E.	Geldeston	57	33	52.1	42.1	47.8	+ 8.1	41	0	3	0.87	+ 0.33	10.4	- 1.3	19	- 4
	Cambridge	57	36	53.7	43.3	48.7	+ 9.8	47	0	3	0.92	+ 0.51	12.6	+ 1.8	23	+ 3
	Rothamsted	56	35	52.4	44.0	48.4	+ 9.5	45	0	6	1.12	+ 0.55	12.4	+ 2.4	23	+ 4
	Bawtry (Hesley Hall)	59	34	54.1	43.9	49.2	+10.2	50	0	3	0.39	- 0.08	*	*	*	*
	Loughborough	58	36	53.7	44.4	49.2	+ 9.5	50	0	4	0.82	+ 0.33	*	*	*	*
	Stamford (Duddington)	57	35	52.9	43.4	48.3	+ 9.3	44	0	7	0.87	+ 0.27	*	*	*	*
	Cheadle	56	35	50.7	41.3	46.2	+ 8.2	32	2	4	0.47	- 0.19	*	*	*	*
4. MIDLAND COUNTIES	Shirley (near Solihull)	56	37	52.4	44.0	48.4	+ 9.0	45	0	6	1.02	?	*	*	*	*
	Churchstoke	57	35	51.8	44.5	48.3	+ 9.1	44	0	6	0.72	0.00	11.1	+ 2.3	21	+ 4
	Hereford	56	39	52.7	45.4	49.2	+ 9.2	50	0	6	0.84	+ 0.24	*	*	*	*
	Cirencester	56	38	52.0	42.9	47.6	+ 8.8	39	0	6	1.37	+ 0.72	11.1	+ 2.1	21	+ 4
	Oxford	56	40	52.9	45.9	49.5	+ 9.5	53	0	4	1.26	+ 0.73	11.8	+ 2.3	22	+ 3
	London	58	39	53.1	45.9	49.6	+ 9.4	53	0	3	1.47	+ 1.02	6.6†	+ 1.4†	12†	+ 1†
	North Foreland	57	39	52.9	45.1	49.2	+ 7.5	50	0	4	0.73	?	*	*	*	*
5. ENGLAND, S.	Cranley	56	41	54.4	47.7	51.2	+ 9.3	64	0	4	0.36	- 0.33	*	*	*	*
	Dungeness	55	39	53.4	45.6	49.7	+ 7.6	54	0	5	0.73	+ 0.05	10.6	- 2.6	19	- 4
	Hastings (St. Leonards)	56	39	54.1	45.7	50.1	+ 7.7	57	0	5	1.57	+ 0.87	5.8	- 5.5	11	-10
	Southampton	56	42	54.0	48.6	51.4	+ 8.5	66	0	5	1.40	+ 0.75	*	*	*	*
	Hurst Castle	56	42	54.0	48.6	51.4	+ 8.5	66	0	5	1.40	+ 0.75	*	*	*	*
	Shaftesbury	53	37	50.8	44.7	47.9	+ 9.5	41	0	6	1.62	+ 0.90	*	*	*	*
	Laudale (Loch Sunart)	56	32	50.8	40.9	46.1	+ 5.2	33	3	7	4.68	+ 2.56	*	*	*	*
6. SCOTLAND, W.	Glasgow	56	33	49.6	42.6	46.2	+ 8.0	29	0	7	1.29	+ 0.39	4.7	+ 1.0	10	+ 2
	Ardrossan	53	36	51.0	44.3	47.8	+ 6.5	41	0	6	0.63	- 0.17	*	*	*	*
	Glenlee	57	29	49.5	41.0	45.4	+ 7.1	28	3	5	1.83	+ 0.36	*	*	*	*
	Douglas (Isle of Man)	55	34	52.0	45.5	48.9	+ 6.3	48	0	6	0.88	- 0.14	8.7	- 2.3	17	- 5
	Stonyhurst	59	41	51.9	45.1	48.6	+ 9.2	46	0	7	1.40	+ 0.35	7.9	+ 0.2	15	+ 1
	Blackpool	58	35	53.6	43.7	48.9	+ 8.8	48	0	7	0.82	+ 0.10	6.3	+ 0.3	12	0
	Manchester (Prestwich)	58	34	51.6	44.2	48.1	+ 8.7	43	0	6	1.08	+ 0.26	4.3	?	8	?
7. ENGLAND, N.W.	Liverpool Obsy. (Bidston)	59	41	54.1	46.0	50.2	+ 9.8	57	0	6	0.37	- 0.25	*	*	*	*
	Llandudno	61	42	55.1	46.0	50.7	+ 7.8	61	0	6	0.43	- 0.27	12.4	+ 4.6	23	+ 7
	Holyhead	55	41	52.9	46.1	49.6	+ 5.1	53	0	6	0.80	- 0.05	*	*	*	*
	Llandoverly	57	36	53.6	44.1	49.0	+ 9.3	49	0	6	1.97	+ 0.77	*	*	*	*
	Pembroke	57	44	54.0	48.4	51.3	+ 6.4	65	0	5	1.19	+ 0.27	12.9	+ 2.7	24	+ 4
	Clifton	58	40	54.0	45.8	50.1	+ 9.8	57	0	5	1.99	+ 1.25	*	*	*	*
	Arlington (N. Devon)	56	40	52.1	44.4	48.4	+ 7.5	45	0	7	3.06	+ 1.71	*	*	*	*
8. ENGLAND, S.W.	Cullompton	58	42	53.8	45.9	50.0	+ 8.8	56	0	6	1.61	+ 0.82	8.0	- 0.5	15	- 1
	Falmouth	56	43	53.6	48.2	51.0	+ 5.3	63	0	7	2.28	+ 1.08	14.4	+ 1.6	26	+ 3
	Plymouth	56	43	54.0	47.7	51.0	+ 6.9	63	0	7	1.98	+ 1.08	11.2	+ 0.1	20	0
	Prawle Point	55	41	53.3	45.9	49.8	+ 5.7	55	0	7	1.62	+ 0.87	*	*	*	*
	Malin Head	53	36	50.6	41.6	46.3	+ 4.0	32	1	7	2.18	?	*	*	*	*
	Londonderry	55	32	51.3	41.4	46.6	+ 5.9	35	2	7	1.55	+ 0.61	*	*	*	*
	Edenfel (Omagh)	55	28	51.4	38.3	45.1	+ 6.8	37	10	6	1.31	+ 0.51	*	*	*	*
9. IRELAND N.	Belmullet	55	40	52.0	44.9	48.6	+ 5.4	46	0	7	2.20	+ 0.91	*	*	*	*
	Markree Castle	56	32	51.3	41.9	46.7	+ 6.5	33	0	7	1.02	+ 0.09	5.4	- 4.4	10	- 8
	Armagh	57	32	51.3	41.1	46.4	+ 6.8	35	3	7	0.40	- 0.20	12.9	+ 2.7	25	+ 5
	Donaghadee	55	32	51.4	40.7	46.3	+ 4.0	36	4	5	0.22	- 0.39	*	*	*	*
	Dublin	59	37	53.9	45.3	49.8	+ 7.8	55	0	6	0.27	- 0.20	12.3	- 0.8	23	- 2
	Parsonstown	57	39	52.9	44.0	48.6	+ 8.3	46	0	7	0.78	+ 0.03	8.8	- 3.2	17	- 5
	Kilkenny	56	37	52.4	44.7	48.7	+ 6.5	47	0	7	0.43	- 0.25	*	*	*	*
10. IRELAND S.	Roche's Point	55	40	52.9	44.7	49.0	+ 4.4	49	0	6	1.17	0.00	*	*	*	*
	Valencia	56	41	53.7	47.3	50.6	+ 4.7	60	0	6	0.85	- 0.41	7.3	- 3.5	14	- 7
	Killarney	57	39	53.8	46.3	50.2	+ 6.7	57	0	6	2.28	?	*	*	*	*
	Foynes	56	39	53.1	45.4	49.5	+ 6.4	53	0	6	1.04	?	*	*	*	*
	Scilly (St. Mary's)	56	45	55.7	47.4	51.7	+ 4.4	68	0	6	1.48	+ 0.53	10.3	?	18	?
	Jersey	59	46	56.6	50.7	53.8	+ 8.9	83	0	5	1.37	+ 0.52	17.0	+ 3.2	30	+ 5

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

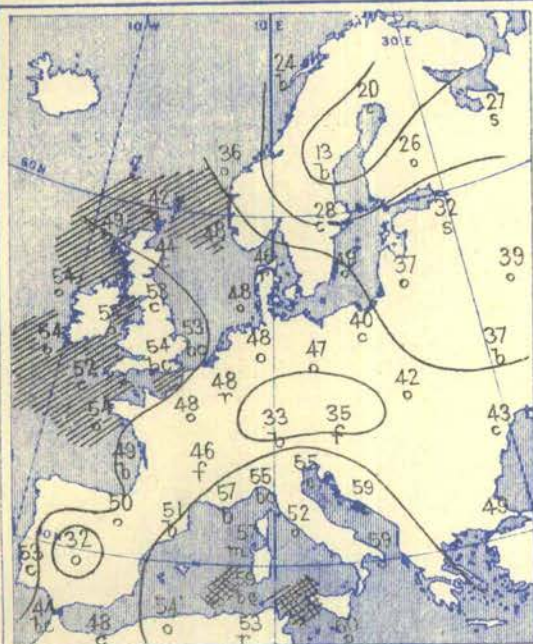
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 4th December.

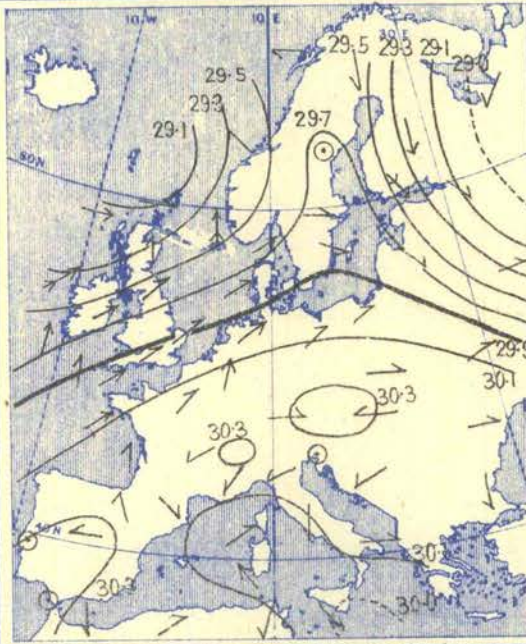
Temperature and Weather.

8 a.m.

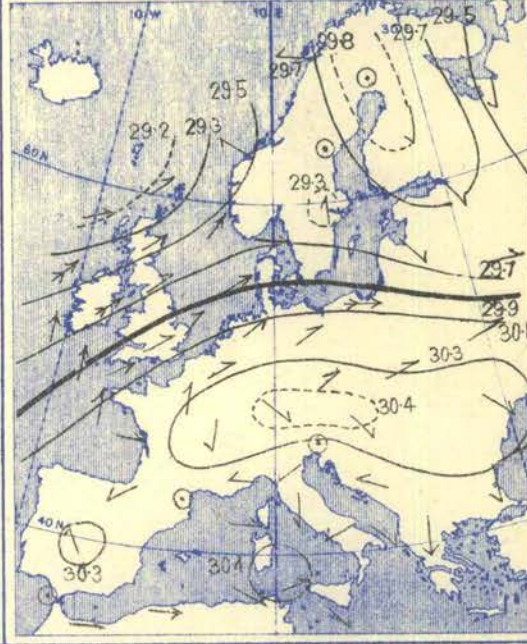


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair and fine over the eastern and central parts of England, but dull in all other parts of our Islands, with rain at some of the northern stations. Cloudy or dull over the Continent as a whole, with fog in Austria, and rain in the south of Scandinavia, as well as at Brussels and Lorient. Snow reported at Archangel and St. Petersburg. Fine in the north of Scandinavia, and also in the extreme south of France. Rain falling later in the west and north of our Islands generally—heavily in the north of Ireland. Heavy rain occurring also in Algeria, with a thunderstorm at Algiers.

Temperature risen in most countries, but fallen in Sweden and Russia. Morning readings highest, 60° at Malta, and 59° at Lesina, Brindisi, and Cagliari; above 50° at the Mediterranean, Adriatic, and Spanish coast stations generally, as well as in all but the extreme northern parts of our Islands. Lowest, (1) 10° at Haparanda, 15° at Hernösand, and 20° at Uleaborg; (2) 33° at Munich and Buda-Pesth. Rising during day to 55° or slightly above it in many parts of the United Kingdom; exceeding 60° over southern Europe generally. Succeeding night very warm in our Islands; thermometer in many places remaining above 50°.

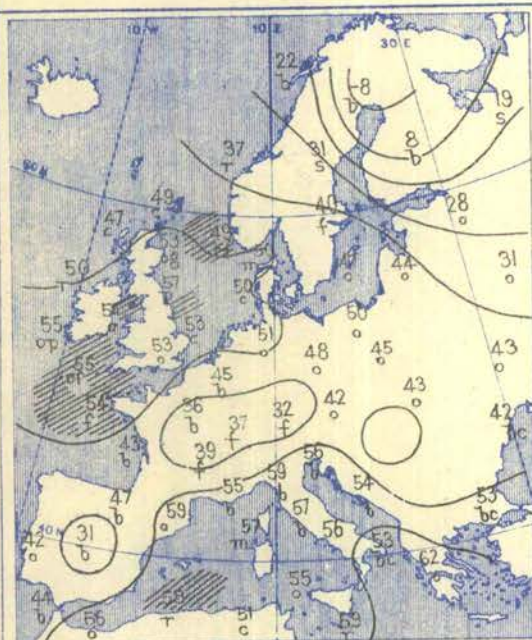
Wind South-Westerly over our Islands, the north of France, the Netherlands, north Germany, Denmark, and the south of Sweden; strong in force on our western coasts, with a gale at Belmullet. South-Easterly or Easterly in the west of Norway. Strong from the Northward or North-Westward in Finland; Westerly over the central and southern parts of Russia. Variable over southern Europe; light from the Southward over western and central France. Subsequently increasing to a gale from the South-Westward on many parts of our north-west coasts, and also at some of the Baltic stations.

Barometer highest, 30.38 ins. at San Fernando; 30.33 ins. at Buda-Pesth; 30.1 ins. and upwards in an anticyclone covering the whole of central and southern Europe. Lowest, 29.0 ins. and less in a large depression over northern Russia; 29.1 ins. and less in another large system lying to the northward of our Islands. Russian depression moving away quickly to the eastward later; disturbance off our northern coasts remaining almost stationary and partially filling up.

Monday, 5th December.

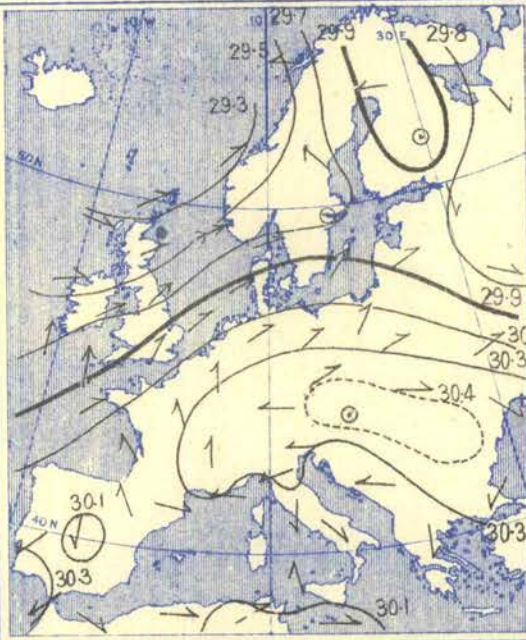
Temperature and Weather.

8 a.m.

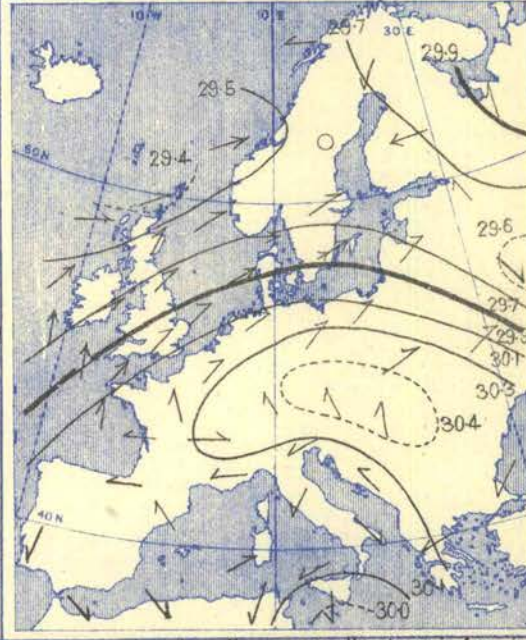


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy over north-western, northern, and central Europe generally, with rain at several of our western and northern stations, as well as in the west of Norway and at Copenhagen; snow reported at Hernösand and Archangel, but weather fine in the extreme north of Scandinavia. Fine over the greater part of Belgium, France, Spain and Italy, but foggy in central France, as well as in south Germany and Austria. Slight rain falling later in the east and south of our Islands, and larger quantities in the north of Scandinavia; snow over northern Russia. Lightning seen at Valencia (Ireland).

Temperature risen over the greater part of our Islands, Denmark, and Scandinavia, but fallen elsewhere. Morning readings highest, (1) 63° at Brindisi, 62° at Patras, and 59° at Barcelona and Malta; (2) 58° at Leith, York and Liverpool; reaching 55° or more in several parts of the United Kingdom. Lowest, -8° Fahr. at Haparanda, 0° zero at Uleaborg, 8° at Kuopio, and 19° at Archangel, touching the freezing point at some stations in central France and south Germany. Rising above 55° later in many parts of our Islands, and reaching 60° at York; exceeding 60° over southern Europe, and reaching 70° at Palermo.

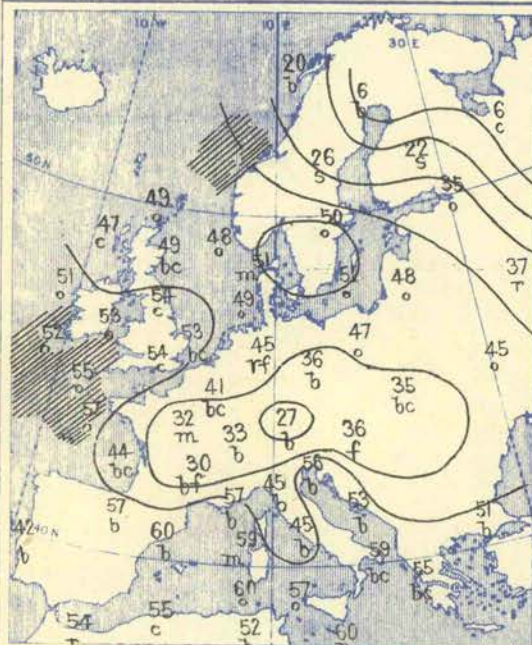
Wind Southerly or South-Westerly over north-western Europe generally, strong in force in many parts of our Islands, and blowing a gale at Skudesnaes; South-Easterly or Easterly over the northern parts of Scandinavia. Light from the Eastward or South-Eastward over France, and from the North-Eastward or Northward over the Spanish Peninsula; Northerly or North-Westerly in Italy and Greece. Calm in Austria; South-Westerly in the south of Russia. Wind tending to subside later in our Islands, but general direction over Europe remaining unchanged.

Barometer highest, 30.4 ins. and upwards in Austria; 30.1 ins. and upwards in an anticyclone covering all the more central and southern parts of Europe. Lowest, 29.3 ins. and less in a depression lying to the north of our Islands and the west of Norway; 29.8 ins. and less in a shallow area over northern and central Russia. No important change occurring over western Europe during day, but definite depressions appearing over northern and central Russia.

Tuesday, 6th December.

Temperature and Weather.

8 a.m.

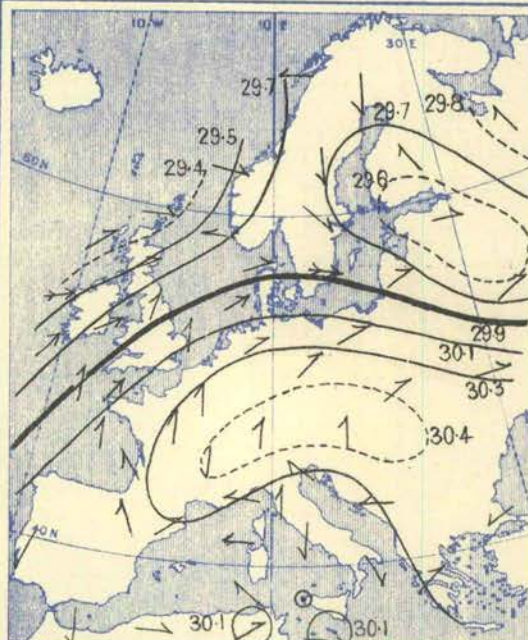


Weather in morning cloudy and showery over the western and central parts of our Islands, but fine in the east of Scotland and also in the east and south-east of England. Fine also over Belgium, France, Italy, and the Spanish Peninsula, but dull in most of the northern, eastern and central countries, with fog in many parts of Denmark, Germany, and Austria, rain over the Gulf of Finland, and snow at Hernösand and Kuopio. Rain falling later in nearly all parts of north-western Europe—heavily at night in the south and east of England. Thunderstorm occurring at Algiers. Aurora seen in the north-east of Scotland.

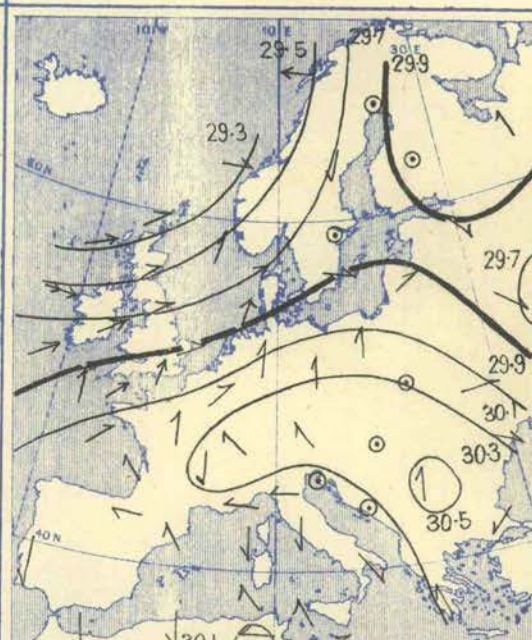
Temperature fallen in most countries. Morning readings highest, (1) 66° at Barcelona, Cagliari, and Malta, and 50° at Sanguinaire and Brindisi; (2) 57° at Brest, and 56° at Loughborough and Hurst Castle, above 50° in all but the extreme northern and north-western parts of our Islands. Lowest, 6° at Archangel and Haparanda, 15° at Uleaborg, and 20° at Bodø; below the freezing point in some parts of south Germany and central France. Rising during day to between 55° and 57° at nearly all the English stations, exceeding 60° in many parts of southern Europe, and reaching 66° at Bilbao and Palermo.

Barometer and Wind.

8 a.m.



6 p.m.



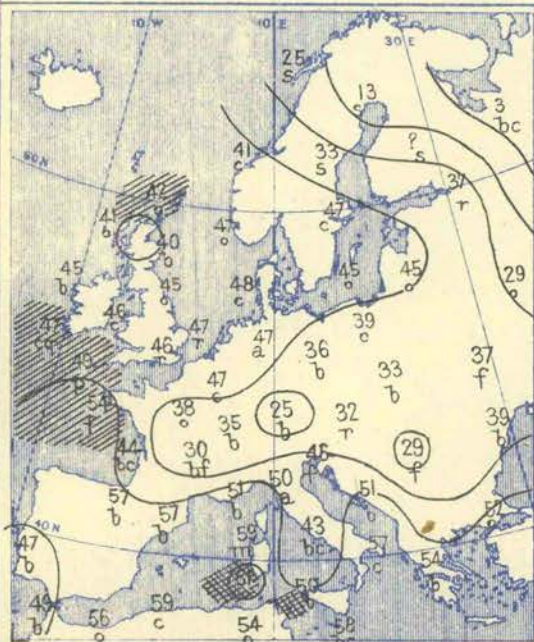
Wind Westerly or South-Westerly over our Islands, the North Sea, Denmark, Germany, the Netherlands, and the north of France, and strong in force at several of the English and Irish stations; Easterly in the west of Norway. Northerly or North-Westerly in Sweden. Westerly in the Baltic and the western and southern parts of Russia, with a gale at Wisby. Light from the Eastward over northern Italy, and the southern parts of France; Northerly over the Spanish Peninsula, and southern Italy. No important change occurring later.

Barometer highest, 30.4 ins. and upwards over Austria, south Germany, and central France; 30.1 ins. and upwards in an anticyclone embracing all the more central and southern parts of Europe. Lowest, 29.4 ins. and less in a large depression lying to the northward and north-westward of our Islands; 29.6 ins. and less in another system over the north-western parts of Russia. Former disturbance spreading eastwards later; small secondary systems beginning to form over England in evening. Depression over Russia moving away to the south-eastward.

Wednesday, 7th December.

Temperature and Weather.

8 a.m.

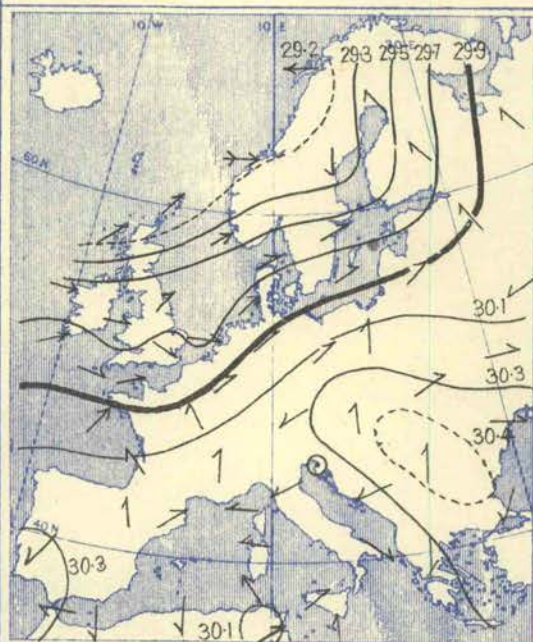


Weather in morning dull over England, with rain at nearly all the eastern, central, and southern stations; fine in most parts of Ireland and Scotland, but with showers in a few places. Fine over southern Europe, and a considerable part of France and Germany, but foggy in Austria; thunderstorm reported at Leghorn, dull in the northern countries, with rain over the Gulf of Finland, and snow over the northern parts of Finland and Scandinavia. Weather improving later over England, but rain falling in the western and northern parts of the Continent, and passing showers in the west and north of our Islands.

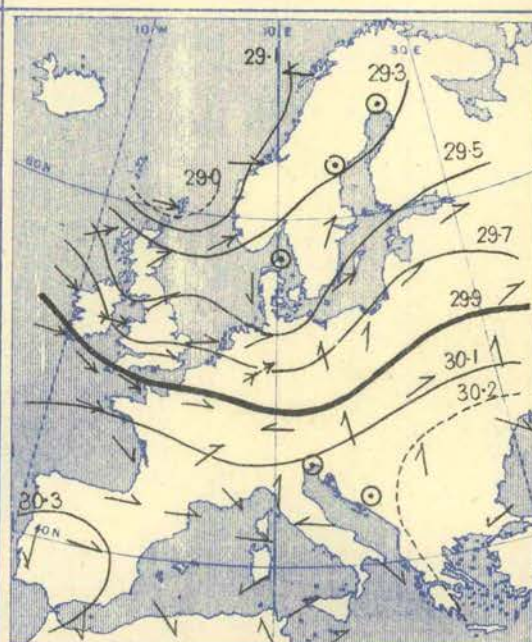
Temperature fallen in most countries, but risen in France and Spain, and also in the north of Scandinavia. Morning readings highest, 61° at Bilbao and Cagliari, and 59° at Sanguinaire and Algiers; above 50° at most of the Mediterranean and Adriatic stations, and also in the north-west of France. Lowest, (1) 3° at Archangel, 13° at Haparanda, and 19° at Uleaborg; (2) 25° at Munich, and 30° at Lyons. Daily maxima in our Islands below 50° on all but our extreme south-west and south-east coasts; thermometer exceeding 55° in the west of France and exceeding 60° in many parts of southern Europe.

Barometer and Wind.

8 a.m.



6 p.m.



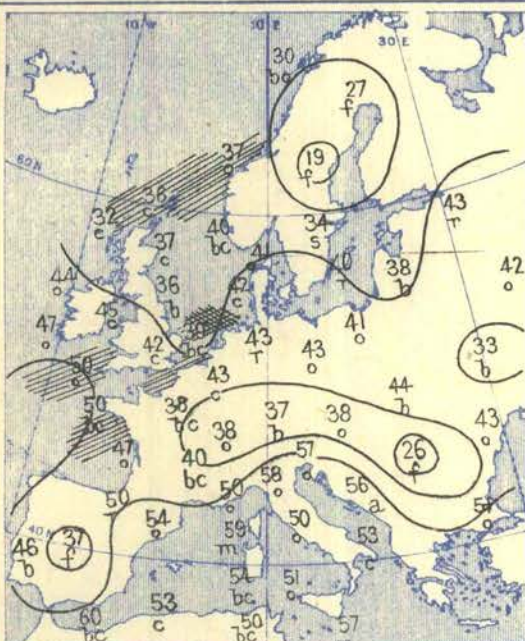
Wind moderate to strong from the South-Westward or Westward over northern and north western Europe as a whole, with a gale at Christiansund, but light from the North-Westward at some stations in the south and east of England; South-Easterly over northern Russia, and Easterly in the north of Scandinavia. Light from between South and East in France, and from the Eastward or North-Eastward in Spain, variable in Greece and Italy; calm in Austria; light from the Westward in the south of Russia. Subsequently veering to the Westward or North-Westward in our Islands, and increasing to a gale on our extreme north and north-west coasts.

Barometer highest, 30.4 ins. and upwards over eastern Austria; 30.1 ins. and upwards in an anticyclone covering the central, southern, and eastern parts of Europe generally. Lowest, 29.2 ins. and less in a large area lying to the northward of our Islands and the westward of Norway; shallow secondary depressions reported over England and the North Sea. Rather deep depression appearing later near the Shetlands; secondary systems moving away to the eastward.

Thursday, 8th December.

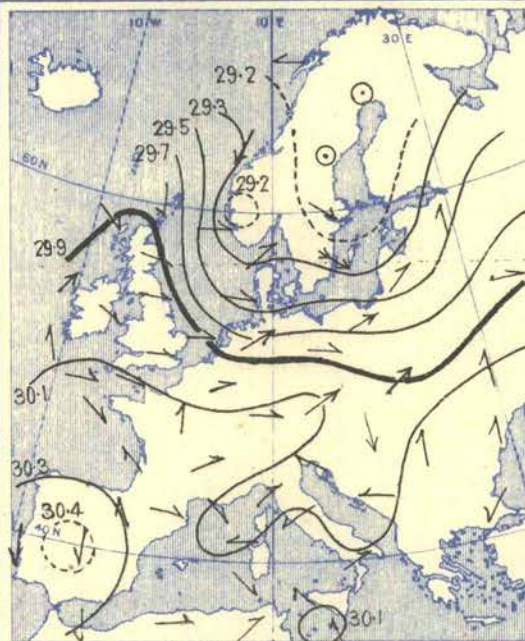
Temperature and Weather.

8 a.m.

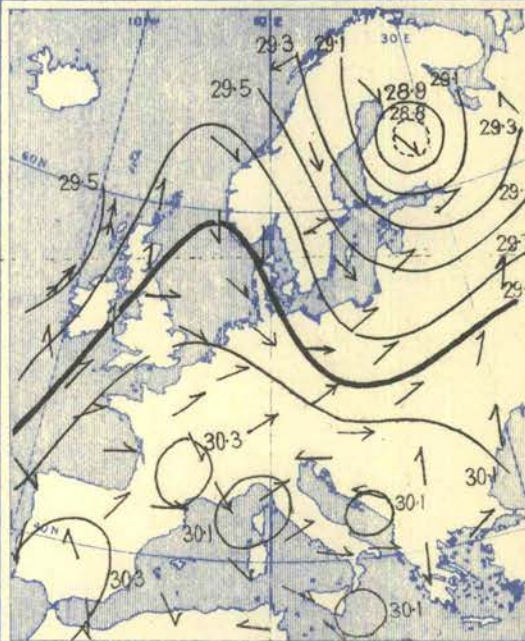


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over western Europe generally, but dull in the west of Ireland. Cloudy or dull in most of the eastern, central and southern countries, with rain in several parts of Scandinavia, as well as at Biarritz and Florence, and a thunderstorm at Lesina; snow falling at Stockholm. Rain spreading later from the westward over the whole of our Islands, and the neighbouring parts of the Continent. Considerable quantities of rain falling over northern Italy, and snow in the north of Russia.

Temperature fallen over our Islands and northern Europe, but risen elsewhere. Morning readings highest, 59° at Sanguinaire, 58° at Leghorn and Algiers, and 57° at Malta; above 50° at most of the Mediterranean and Adriatic stations. Lowest, (1) 19° at Hernösand, 27° at Haparanda, and 30° at Bodö; (2) 26° at Hermanstadt; (3) 32° at Stornoway, and 35° at Nairn and Donaghadee. Remaining below 45° all day at several of our northern stations, and below 50° on all but our south-west coasts. Reaching 55° or more in the west and south of France, and exceeding 60° at several of the Mediterranean and Spanish coast stations.

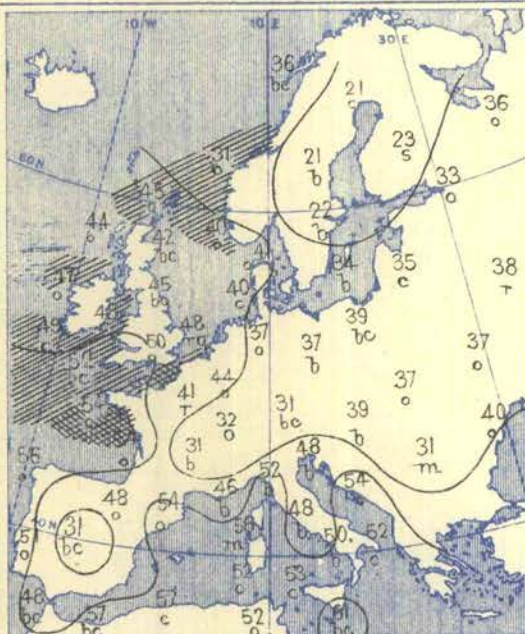
Wind light to moderate from the Westward or North-Westward over the greater part of our Islands, but Southerly or South-Easterly in the west of Ireland. Moderate to strong from the Westward or South-Westward over Denmark, Germany and the south of Norway, but North-Westerly in the south of Sweden, with a gale at Wisby; calm in the Gulf of Bothnia; Easterly or North-Easterly in the west of Norway. Variable over Austria and Italy, but Westerly in the south of France, South-Easterly in the west of that country, and Easterly to Northerly in Spain. Subsequently backing to the Southward in all parts of our Islands, and increasing to a gale in the west and north.

Barometer highest, 30.4 ins. at Madrid; 30.1 ins. and upwards in an anticyclone covering the greater part of southern Europe. Lowest, 29.2 ins. and less over Sweden, and also in a small depression over the south-west of Norway. Norwegian depression subsequently moving away quickly to the eastward and becoming much deeper; new and large disturbance appearing off our own north-west coasts in evening.

Friday, 9th December.

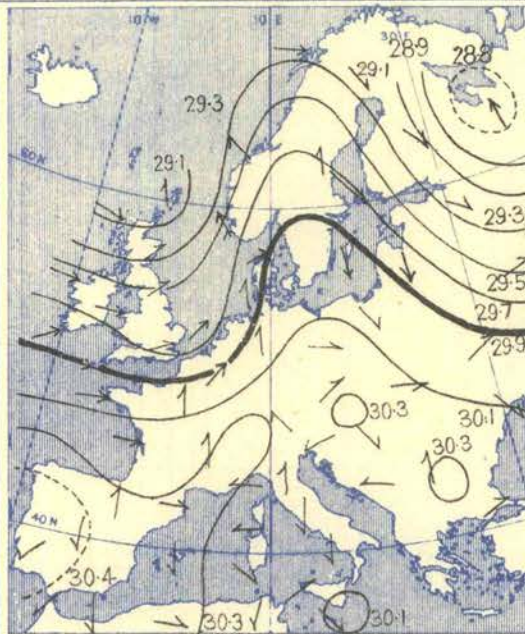
Temperature and Weather.

8 a.m.

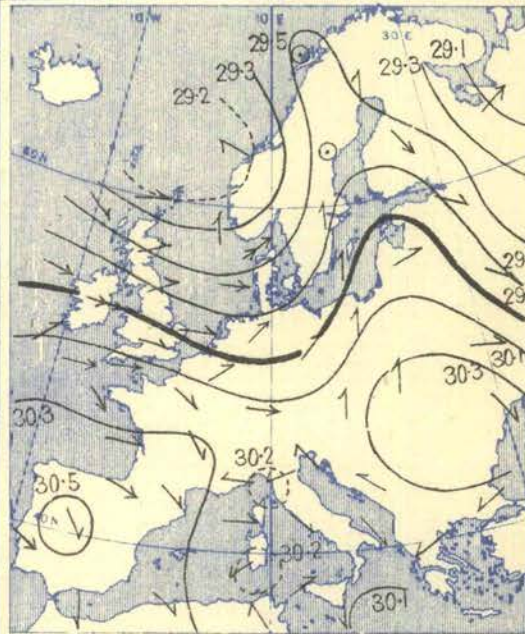


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning rainy on the east and south-east coasts of England, and showery in many other parts of our Islands, but fine in the east of Scotland. Fine over southern Europe generally, and also in Sweden; cloudy or dull in most other parts of the Continent, with rain in the north of France, and at Moscow, and snow at Kuopio. Rain falling later over the whole of Ireland and Scotland, and also in the south of England, and in the western and northern parts of the Continent generally.

Temperature risen in our Islands and the north of France, as well as in Austria and the south of Russia, but fallen elsewhere. Morning readings highest, 61° at Malta, 59° at Patras, and 57° at Algiers and Oran; above 50° on the south coasts of England. Lowest, (1) 21° at Haparanda and Hernösand, and 23° at Uleaborg and Kuopio; (2) 31° at Munich, Lyons, and Hermanstadt, and 32° at Belfort. Rising during day to 50° and upwards in all but the extreme northern parts of our Islands, and to 56° at Scilly; exceeding 55° also in the west and south of France, and reaching 60° at Perpignan.

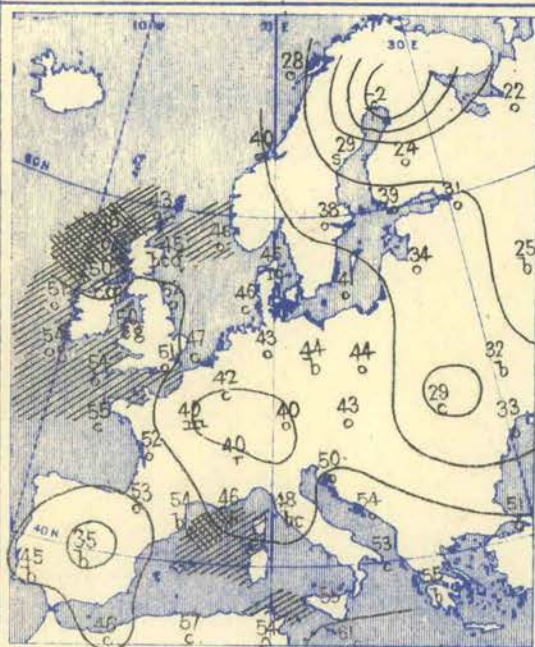
Wind strong from the Westward over the western parts of our Islands and France, but light to moderate from the South-Westward in the eastern parts of Great Britain, and from the Southward over central France, the Netherlands, Denmark, and western Europe; South-Easterly in Norway. Moderate to strong from the Northward or North-Westward over Sweden, Finland, and the Baltic Provinces. Westerly or South-Westerly over eastern Germany, Austria, and the central and southern parts of Russia. Variable in the south of France; Northerly over Italy and the Spanish Peninsula. Subsequently veering to the Westward over the east of our Islands, the Netherlands, and the north-east of France.

Barometer highest, 30.4 ins. and upwards over the western and central parts of the Spanish Peninsula; 30.1 ins. and upwards in an anticyclone embracing the whole of central and southern Europe. Lowest, 28.8 ins. and less in a depression with its centre over the White Sea; 29.1 ins. and less in another depression off the north of Scotland. Latter disturbance subsequently moving north-eastwards, but new depression appearing near the Shetlands at night.

Saturday, 10th December.

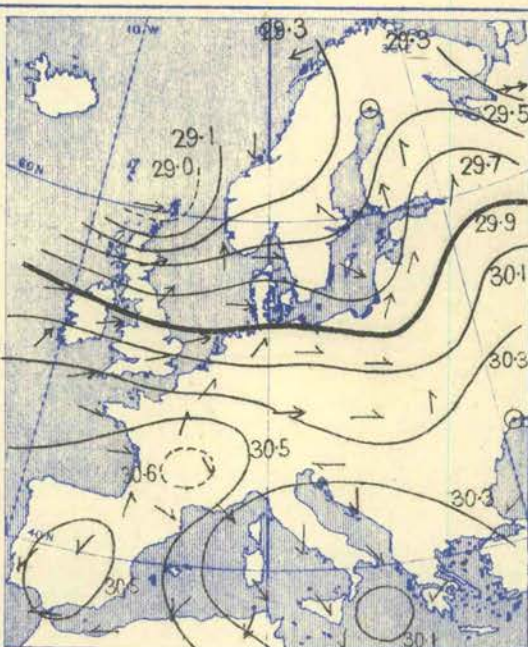
Temperature and Weather.

8 a.m.

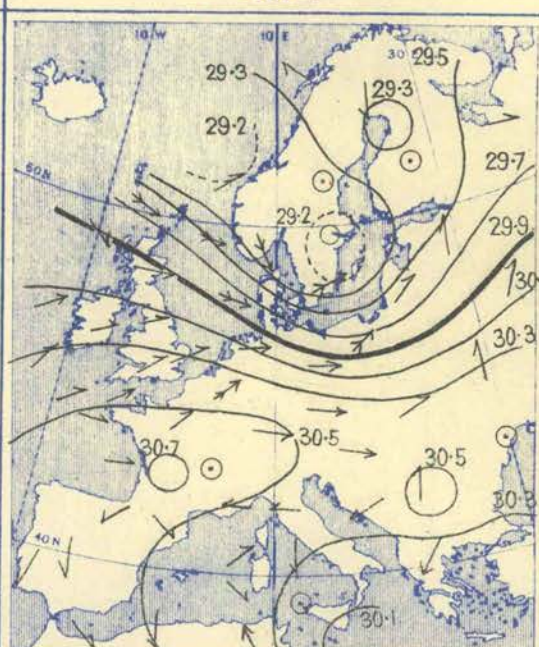


Barometer and Wind.

8 a.m.



8 p.m.



Weather in morning cloudy or dull over the western, northern and central countries generally, with showers in isolated parts of our Islands, steady rain at Lorient, Belfort and Memel, and snow at Hernosand. Fine in the east of Scotland, and also over the greater part of southern Europe, but dull over the Adriatic and southern Italy. Sky clearing later in the north and east of England, but rain falling in the west and north of Scotland, as well as in many parts of Scandinavia, Denmark and Germany.

Temperature risen in our Islands and the northern and central parts of the Continent, but fallen elsewhere. Morning readings highest, 61° at Malta, 60° at La Calle, and 59° at Sanguinaire; above 50° in the west of France, and also over the greater part of Ireland and England. Lowest, -2° Fahr. at Haparanda, +22° at Archangel, 24° at Kuopio, and 25° at Uleaborg and Moscow. Rising during day to between 50° and 55° in nearly all parts of our Islands, and to 56° at Loughborough, Liverpool and Seilly—Exceeding 55° also in the west and south of France, and exceeding 60° in many parts of Spain and Italy.

Wind Westerly or South-Westerly over our Islands, the Netherlands, Denmark, Germany, and the Baltic; strong in force in many places, with a gale on our own extreme north-west coasts. Southerly over Sweden, Finland and the Baltic provinces. Northerly or North-Westerly over Italy and the south of France; North-Easterly over the Spanish Peninsula. Subsequently increasing to a strong gale from the Westward or North-Westward in the extreme north of Scotland, and also in Denmark and the south of Norway, but moderating on our western coasts.

Barometer highest, 30.6 ins. and upwards over central France; 30.1 ins. and upwards in an anticyclone embracing the entire southern half of Europe. Lowest, 29.0 ins. and less in a depression lying near the Shetlands; 29.2 ins. and less in another disturbance over the northern parts of Norway; 29.3 ins. and less in a third system over the extreme north of Russia. Depression off the north of Scotland subsequently moving away quickly to the eastward, and barometer rising fast on our own northern coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\Rightarrow$ = a heavy gale; $\Rightarrow$ = a gale; $\Rightarrow$ = a fresh to strong breeze; $\Rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

Throughout this period the southern countries were under the influence of a large anticyclone, embracing nearly the whole of central and southern Europe, while the northern and north-western countries were affected by some large depressions, the centres of which skirted our own northern coasts, and passed eastwards across Scandinavia and northern Russia. In the former regions the winds were therefore light and rather variable, and the weather mostly fair and dry, the only exception occurring on the 8th, when a shallow depression was formed temporarily over the Gulf of Lyons, and occasioned heavy rain in northern Italy. Over our Islands and northern Europe, however, the wind blew with considerable strength from the Westward (South-West and North-West), and frequently reached the force of a gale, especially in the more northern districts, the weather being exceedingly changeable, with a good deal of rain, and occasional snow over the northern parts of Scandinavia and Russia. Between the 6th and 7th, when some small secondary depressions were developed over England, a heavy fall of rain occurred over our southern counties, the amount in London in about 24 hours being as much as 1.4 ins.

In the ridges of comparatively high pressure separating the large disturbances in the north the thermometer occasionally fell to a very low level, especially in the northern parts of Scandinavia. Frost was also experienced at times in some of the more central parts of Europe, but in our Islands the weather was extremely mild, especially at the beginning and end of the week, when the thermometer reached a maximum of 55° or more in several parts of the Kingdom—on the 5th it touched 60° at York, and 61° at Llandudno.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 290.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	2.9	?	?	?	WESTBOURNE (Emsworth)	*	*	*	*
STRATHPEFFER SPA	7.13.5	+ 7.6.3	7.30	+ 7.14	WATERGATE (Emsworth)	7.8	?	14	?
EDINBURGH	5.4	- 1.6	11	- 3	BRIGHTON	7.2	- 3.8	13	- 8
MORPETH	17.3	?	35	?	EASTBOURNE	7.8	- 4.0	14	- 8
NEWCASTLE-ON-TYNE	11.7	?	23	?	VENTNOR HOSPITAL	5.9	?	11	?
OSWALDKIRK (Yorkshire)	11.6	+ 2.6	22	+ 5	SOUTHPORT	9.2	?	15	?
HOLLESLEY BAY	12.5	?	23	?	COLWYN BAY	11.5	?	22	?
SHEFFIELD	12.4	?	23	?	TENBY	11.1	+ 0.6	21	+ 1
WORKSOP	6.6	- 1.6	12	- 4	NEWQUAY	11.1	- 1.2	20	- 4
THURCASTON (Leicestershire)	9.4	+ 1.1	18	+ 3	TORQUAY	13.7*	+ 1.9	24*	+ 3
PLUMSTEAD COMMON	5.7	?	19	?	GUERNSEY	10.3*	0.0	18*	0
MARGATE	9.7	- 2.0	18	- 2					

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.Vol. XV. No. 50.]
Third Series.

WEEK ENDING SATURDAY, DECEMBER 17TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 296.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	56	32	49.2	38.9	44.3	6 above	Day-deg. 29	Day-deg. +20	Day-deg. 9	Day-deg. -17	Day-deg. 2299	Day-deg. +337	Day-deg. 517	Day-deg. -260
	1. SCOTLAND, EAST	57	31	51.6	38.7	45.4	8 above	38	+30	9	-24	2602	+252	558	-282
	2. ENGLAND, N.E.	58	30	52.6	40.8	47.0	9 above	40	+29	3	-23	2946	+384	382	-290
	3. ENGLAND, EAST	58	30	51.6	29.2	45.6	8 above	37	+25	8	-22	3297	+337	458	-303
	4. MIDLAND COUNTIES	58	30	51.7	40.1	46.1	8 above	37	+25	5	-25	3211	+279	465	-318
	5. ENGLAND SOUTH	56	34	51.9	43.0	47.6	8 above	39	+20	0	-19	3671	+419	250	-312
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	55	35	51.3	42.8	47.2	7 above	36	+22	0	-21	2843	+341	302	-279
	7. ENGLAND, N.W.	57	33	51.6	44.0	48.0	8 above	42	+27	0	-20	3164	+420	249	-301
	8. ENGLAND, S.W.	55	30	52.5	44.9	48.9	7 above	48	+25	0	-14	3525	+442	222	-195
	9. IRELAND, NORTH	55	36	51.9	43.5	47.9	8 above	41	+27	0	-20	2999	+366	262	-236
	10. IRELAND, SOUTH	58	34	53.7	44.5	49.3	7 above	51	+28	0	-15	3518	+493	195	-184
	—CHANNEL ISLANDS.	56	44	54.6	48.0	51.5	6 above	67	+31	0	-4	4242	+649	55	-104

DISTRICTS. (See p. 296.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	10ths of in. 26	10ths of in. 12 more	249	+14	Ins. 62.6	+14.8	1	-2	3	-6	1221	+167	28	+4
	1. SCOTLAND, EAST	4	4	2 less	195	+4	29.1	-1.6	3	-4	7	-8	1303	+42	30	+1
	2. ENGLAND, N.E.	1	less than ½	5 less	169	-11	21.3	-4.2	7	-2	14	-4	1221	-19	29	0
	3. ENGLAND, EAST	2	1	5 less	148	-29	19.1	-6.2	9	-1	17	-3	1521	-16	35	0
	4. MIDLAND COUNTIES	2	less than ½	5 less	154	-19	20.3	-7.1	9	0	16	0	1363	+28	32	0
	5. ENGLAND, SOUTH	2	1	6 less	144	-25	20.6*	-7.6	6	-5	11	-8	1504	-26	36	-1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	8	5 less	216	+15	43.6	-3.9	6	-1	13	-1	1307	+2	31	0
	7. ENGLAND, N.W.	6	6	2 less	192	+4	32.5	-1.4	5	-3	9	-5	1414	+108	33	+2
	8. ENGLAND, S.W.	5	3	6 less	179	-13	33.2*	-5.0	6	-5	10	-11	1666	+39	39	+1
	9. IRELAND, NORTH	5	3	5 less	233	+15	36.3	-0.2	7	-2	13	-5	1280	+29	39	+1
	10. IRELAND, SOUTH	5	3	6 less	192	-6	37.3	0.0	5	-6	11	-11	1465	+43	34	+1
	—CHANNEL ISLANDS.	5	4	4 less	199	-5	26.2	-6.3	3	-8	6	-15	1940	+123	47	+3

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather was again extremely mild in all parts of the Kingdom. Heavy rain was experienced in the north of Scotland, and frequent, but comparatively slight falls in the west and north generally; over central, eastern, and southern England the rain was very slight, and mostly in the form of drizzle.

Temperature continued unusually high, ranging from 6° above the mean in Scotland N. and the Channel Islands, to 8° in most other districts, and to 9° in England N.E. The highest of the maxima were recorded either on the 11th or 12th, when they varied from 58° in England E. and N.E., the Midland Counties, and Ireland S., to 55° in Scotland W., Ireland N., and England S.W. The lowest of the minima, which were registered during the middle part of the week, ranged from 30° over central, eastern, north-eastern, and south-western England, to 36° in Ireland N., and to 44° in the Channel Islands.

Rainfall was much more than the mean in Scotland N., but less in all other parts of the Kingdom. In most of the English districts the fall was very slight.

Bright Sunshine just equalled the mean in the Midland counties, but was deficient in all other districts. The percentage of the possible duration ranged from 17 in England E. to 7 in Scotland E., 6 in the Channel Islands, and to 3 in Scotland N.

Barometer and Wind.—Large and important depressions continued to skirt our north-western and northern coasts on their way to Scandinavia, causing South-westerly to Westerly and North-westerly winds in all parts of our Islands, varying in force from a moderate or strong breeze over the southern half of the Kingdom to strong winds and occasional gales in the north and north-west. The distribution of pressure over England was at times rendered somewhat irregular by the passage of secondary systems, but these were too slight to very much affect the direction and force of the wind.

II.—DATA from which the SUMMARY on page 295 has been calculated.

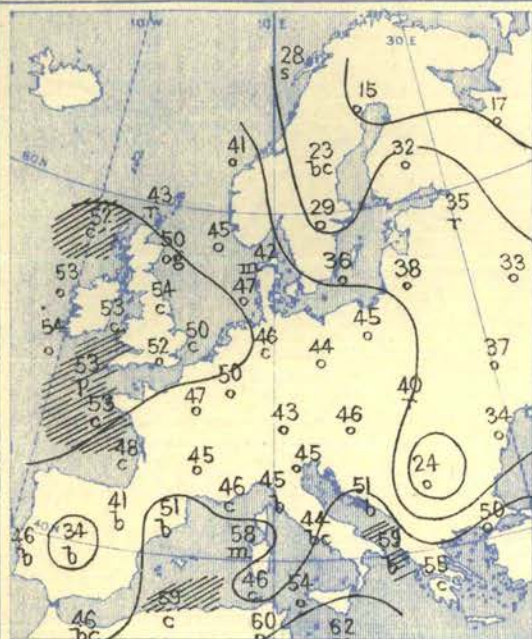
DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall			Bright Sunshine				
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
0. SCOTLAND, N.	Sumburgh Head	52	38	47.9	39.7	44.0	+ 4.7	24	6	7	1.99	+ 1.01	*	*	*	*
	Stornoway	55	34	49.4	38.1	44.0	+ 4.9	30	11	7	2.25	+ 0.97	1.6	- 4.0	4	- 9
	Wick	56	32	51.0	37.9	44.7	+ 6.8	36	11	7	0.90	+ 0.18	*	*	*	*
	Laing	54	34	48.6	36.8	42.9	+ 6.2	28	15	7	1.94	+ 1.06	*	*	*	*
	Glencarron	52	36	47.9	39.5	43.9	+ 7.2	24	7	7	4.94	+ 2.72	*	*	*	*
	Fort Augustus	55	34	50.1	38.7	44.6	+ 6.6	32	9	7	2.11	+ 0.99	1.7	+ 0.2	4	0
	Fort William	53	39	49.8	41.5	45.8	+ 6.6	29	1	7	3.69	+ 1.49	1.6	- 0.7	4	- 2
1. SCOTLAND E.	Nairn	55	36	52.4	39.1	46.0	+ 8.3	40	8	6	0.96	+ 0.50	*	*	*	*
	Aberdeen	57	36	52.6	39.6	46.4	+ 8.8	41	7	5	0.38	- 0.32	4.7	- 4.3	10	-10
	Braemar	52	33	46.9	35.3	41.3	+ 6.8	14	28	6	0.43	- 0.26	0.0†	- 4.8†	0†	-10†
	Ochertyre	55	33	52.3	38.4	45.7	+ 8.7	41	10	5	0.49	- 0.45	*	*	*	*
	Leith	56	38	53.6	41.9	48.0	+ 8.7	42	0	1	0.13	- 0.32	*	*	*	*
	Marchmont	56	31	51.6	38.1	45.1	+ 8.5	38	11	3	0.11	- 0.61	7.8	0.0	16	0
	Alnwick Castle.	57	30	53.3	40.5	47.2	+ 9.0	43	4	1	0.01	- 0.69	*	*	*	*
2. ENGLAND, N.E.	Durham	56	33	52.9	39.3	46.4	+ 9.2	42	8	1	0.01	- 0.61	8.5	- 1.3	17	- 3
	Shields	58	35	53.6	41.1	47.6	+ 8.8	43	3	1	0.03	- 0.50	*	*	*	*
	Scarborough	55	35	53.1	40.7	47.2	+ 8.2	42	4	2	0.05	- 0.56	8.0	?	16	?
	York	57	35	52.9	40.6	47.0	+ 9.2	41	4	1	0.01	- 0.49	9.4	- 4.6	7.1	- 11
	Spurn Head	53	39	50.0	42.7	46.5	+ 7.4	32	0	2	0.08	- 0.39	*	*	*	*
	Hillington.	54	30	51.2	38.4	45.1	+ 7.7	37	10	4	0.15	- 0.42	8.9	- 0.2	17	- 1
	Yarmouth.	54	34	50.4	39.0	44.9	+ 6.6	33	8	2	0.04	- 0.56	*	*	*	*
3. ENGLAND, E.	Geldeston.	55	32	52.5	40.3	46.6	+ 8.0	39	5	2	0.03	- 0.47	12.9	+ 1.8	24	+ 2
	Cambridge	58	33	52.7	39.0	46.1	+ 8.1	41	8	2	0.05	- 0.35	6.5	- 3.4	12	- 7
	Rothamsted	55	33	51.3	39.2	45.5	+ 7.5	36	8	1	0.02	- 0.53	6.6	- 3.1	12	- 6
	Bawtry (Hesley Hall)	58	30	53.0	37.6	45.6	+ 7.9	44	12	0	-	- 0.49	*	*	*	*
	Loughborough	57	32	53.3	40.4	47.1	+ 8.9	42	4	1	0.01	- 0.50	*	*	*	*
	Stamford (Duddington)	55	32	51.0	40.0	45.7	+ 8.3	34	6	2	0.04	- 0.48	*	*	*	*
	Cheadle	55	37	50.7	42.2	46.6	+ 9.5	32	0	4	0.11	- 0.59	*	*	*	*
4. MIDLAND COUNTIES	Shirley (near Solihull)	55	31	51.2	39.5	45.6	+ 7.8	36	7	4	0.04	?	*	*	*	*
	Churchstoke	54	30	51.2	38.4	45.1	+ 7.7	37	10	4	0.15	- 0.42	8.9	- 0.2	17	- 1
	Hereford	54	34	50.4	39.0	44.9	+ 6.6	33	8	2	0.04	- 0.56	*	*	*	*
	Cirencester	53	30	50.8	38.9	45.1	+ 7.3	35	9	1	0.02	- 0.60	8.4	- 0.6	16	- 1
	Oxford	54	36	51.9	42.3	47.3	+ 8.6	37	0	1	0.01	- 0.47	8.7	- 0.5	16	- 2
	London	55	35	51.6	41.9	46.9	+ 7.6	35	0	1	0.01	- 0.47	2.6†	- 2.2†	5†	- 5†
	North Foreland	55	36	50.9	42.1	46.7	+ 6.5	33	0	3	0.04	?	*	*	*	*
5. ENGLAND, S.	Cranley	54	34	52.0	42.6	47.5	+ 6.6	39	0	2	0.04	- 0.61	*	*	*	*
	Dungeness	54	34	52.0	42.6	47.5	+ 6.6	39	0	2	0.04	- 0.61	*	*	*	*
	Hastings (St. Leonards)	55	35	52.5	43.7	48.3	+ 7.2	44	0	3	0.06	- 0.61	5.5	- 7.4	10	-13
	Southampton	56	36	53.7	43.2	48.7	+ 8.1	47	0	2	0.02	- 0.70	8.1	- 3.1	15	- 6
	Hurst Castle	54	39	52.4	45.6	49.1	+ 7.5	50	0	1	0.01	- 0.63	*	*	*	*
	Shaftesbury	53	38	50.1	42.2	46.3	+ 9.1	30	0	5	0.15	- 0.55	*	*	*	*
	Laudale (Loch Sunart)	55	38	52.3	41.5	47.1	+ 6.8	38	1	7	1.80	- 0.28	*	*	*	*
6. SCOTLAND, W.	Glasgow	54	40	49.8	42.5	46.3	+ 8.1	30	0	6	0.68	- 0.22	4.0	+ 0.3	8	0
	Ardrossan	53	43	51.3	45.6	48.6	+ 7.7	46	0	6	0.33	- 0.49	*	*	*	*
	Glenlee	54	35	50.9	40.6	46.0	+ 8.1	34	4	7	0.57	- 0.35	*	*	*	*
	Douglas (Isle of Man)	55	38	52.2	43.8	48.2	+ 6.3	43	0	7	0.35	- 0.70	8.8	- 1.2	17	- 3
	Stonyhurst	52	34	48.3	41.6	45.1	+ 6.9	23	1	7	1.20	+ 0.13	4.1	- 2.8	8	- 5
	Blackpool	53	34	51.6	42.8	47.4	+ 8.1	38	0	7	0.51	- 0.21	0.5	- 5.1	1	-11
	Manchester (Prestwich)	55	33	50.6	41.1	46.0	+ 7.8	32	3	7	0.66	- 0.16	1.5	?	3	?
7. ENGLAND, N.W.	Liverpool Obsy. (Bidston)	57	41	53.6	45.7	49.8	+ 9.8	55	0	4	0.32	- 0.28	*	*	*	*
	Llandudno	56	43	52.7	46.4	49.7	+ 7.6	54	0	5	0.52	- 0.18	7.1	0.0	14	0
	Holyhead	54	43	52.7	46.6	49.8	+ 6.2	55	0	7	0.28	- 0.58	*	*	*	*
	Llandoverly	54	30	52.1	41.9	47.2	+ 8.8	37	0	7	0.59	- 0.63	*	*	*	*
	Pembroke	54	44	53.1	47.9	50.6	+ 6.5	60	0	6	0.20	- 0.70	3.1	- 6.9	6	-15
	Clifton	55	39	52.6	45.3	49.1	+ 9.4	50	0	3	0.15	- 0.55	*	*	*	*
	Arlington (N. Devon)	54	35	50.9	42.7	47.0	+ 6.8	35	0	7	0.98	- 0.35	*	*	*	*
8. ENGLAND, S.W.	Cullompton	55	33	52.8	43.8	48.5	+ 9.3	46	0	3	0.12	- 0.67	5.0	- 3.4	9	- 6
	Falmouth	55	43	52.6	46.3	49.6	+ 5.0	53	0	6	0.22	- 0.98	6.1	- 6.4	11	-12
	Plymouth	54	39	53.1	45.7	49.6	+ 6.5	53	0	5	0.20	- 0.68	6.5	- 4.7	12	- 9
	Prawle Point	54	41	52.4	45.7	49.2	+ 6.1	50	0	5	0.16	- 0.67	*	*	*	*
	Malin Head	53	42	51.6	43.9	47.9	+ 6.0	41	0	6	0.26	?	*	*	*	*
	Londonderry	54	41	51.5	43.9	47.9	+ 7.9	41	0	4	0.31	- 0.62	*	*	*	*
	Edenfel (Omagh)	54	26	52.1	41.7	47.1	+ 9.4	37	1	6	0.35	- 0.47	*	*	*	*
9. IRELAND, N.	Belmullet	54	40	52.3	45.3	48.9	+ 5.8	48	0	7	0.33	- 0.88	*	*	*	*
	Markree Castle	54	39	52.0	43.8	48.1	+ 9.0	43	0	5	0.41	- 0.54	7.2	- 1.3	14	- 3
	Armagh	54	38	50.9	43.0	47.1	+ 8.4	36	0	4	0.22	- 0.40	6.0	- 2.8	12	- 6
	Donaghadee	55	38	53.1	42.6	48.1	+ 6.6	43	0	4	0.06	- 0.59	*	*	*	*
	Dublin	58	39	53.7	44.0	49.0	+ 7.7	49	0	5	0.12	- 0.41	9.1	- 3.1	18	- 6
	Parsonstown	55	34	53.1	41.1	47.3	+ 7.6	41	3	5	0.21	- 0.49	6.0	- 5.0	12	- 9
	Kilkenny	55	35	53.4	42.1	48.0	+ 7.0	42	0	3	0.12	- 0.60	*	*	*	*
10. IRELAND S.	Roche's Point	55	43	53.7	46.7	50.3	+ 6.2	58	0	3	0.12	- 1.05	*	*	*	*
	Valencia	55	42	53.4	47.1	50.4	+ 5.0	59	0	7	0.51	- 0.80	0.8	- 9.2	2	-18
	Killarney	57	40	55.3	46.3	51.0	+ 7.8	63	0	5	0.26	?	*	*	*	*
	Foynes	55	39	53.4	44.2	49.0	+ 7.0	49	0	5	0.53	?	*	*	*	*
	Scilly (St. Mary's)	56	45	54.9	48.4	51.8	+ 4.9	69	0	5	0.35	- 0.55	2.0	?	4	?
	Jersey	55	44	54.3	47.6	51.1	+ 7.1	64	0	5	0.51	- 0.33	3.9	-10.0	7	-18
	CHANNEL ISLANDS															

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.* An Asterisk is inserted in all places for which the information is not usually received.
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 11th December.

Temperature and Weather.

8 a.m.

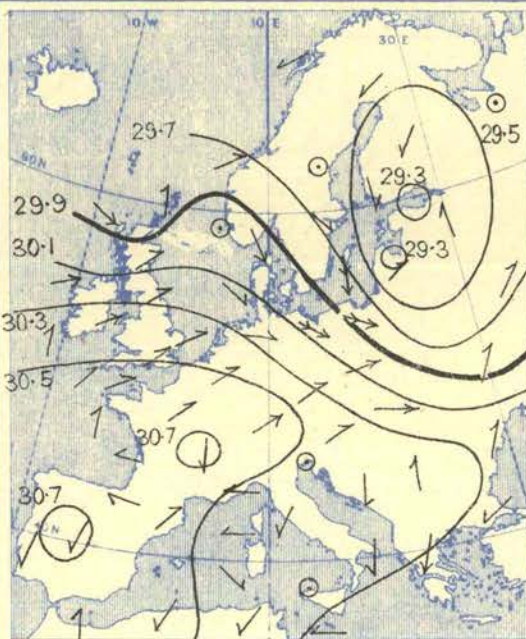


Weather cloudy or dull over the greater part of western, northern and central Europe with rain at Sumburgh Head, as well as at Memel and St. Petersburg, and snow at Bodö. Fine in most of the southern countries, and also at some of the Swedish stations. A little rain falling later in the west and south of our Islands, and larger amounts in the north of Scotland, as well as in Sweden and Germany; snow reported at Moscow.

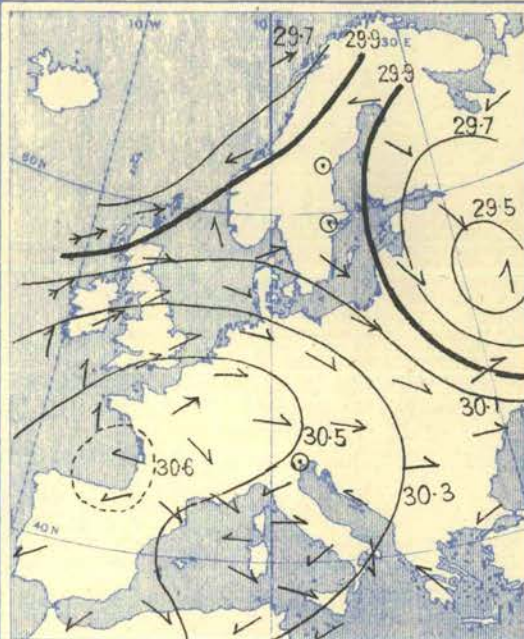
Temperature risen in all but the southern countries. Morning readings highest, 62° at Malta, 60° at La Calle and 59° at Brindisi and Algiers; above 50° at the Mediterranean stations generally, as well as in nearly all parts of the United Kingdom. Lowest, 15° at Haparanda, 17° at Archangel, 21° at Uleaborg and 23° at Hernösand, below the freezing point in the northern parts of Russia and Scandinavia generally, and also in eastern Austria. Rising during day to 55° and upwards in many parts of the United Kingdom and France, and to 58° at Cambridge. Exceeding 60° over Spain and the Mediterranean, and reaching 68° at Sanguinaire.

Barometer and Wind.

8 a.m.



6 p.m.



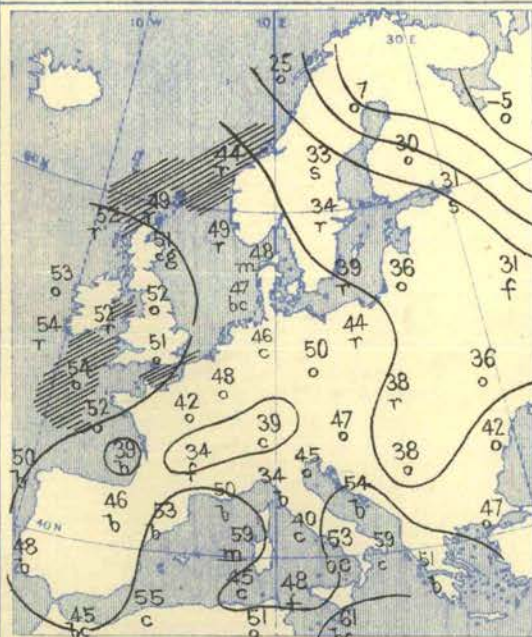
Wind light to fresh from South and West over our Islands, the Netherlands, Germany, Austria and the south of Russia. Light from the Northward over Finland and the Gulf of Bothnia; strong to a gale from the North-Westward over the Baltic. Light to moderate from between North and East over southern Europe generally. Subsequently increasing to a gale from the South-Westward on some parts of our own north and north-west coasts; gale in Baltic subsiding and wind backing.

Barometer highest, 30.72 ins. at Lyons, and 30.71 ins. at Madrid; 30.2 ins. and upwards in an anticyclone covering the whole of central and southern Europe, and extending northwards over England and Ireland. Lowest, 29.3 ins. and less in a depression with its centre over the Baltic provinces; 29.8 ins. and in another disturbance lying off the north of Scotland. Baltic depression subsequently moving away to the eastward; Scotch disturbance spreading south-eastwards.

Monday, 12th December.

Temperature and Weather.

8 a.m.

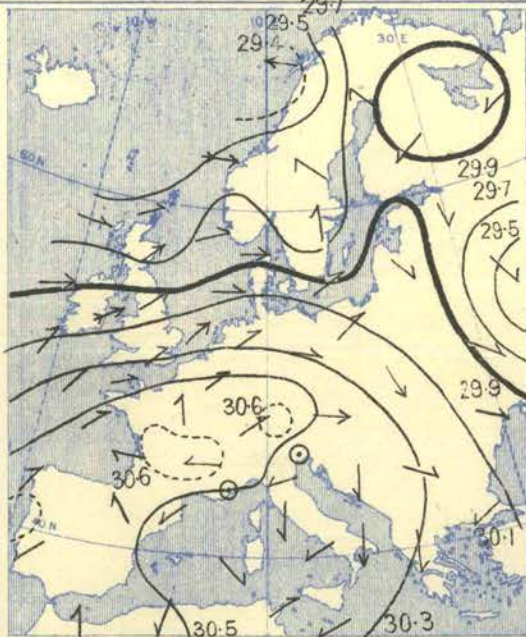


Weather in morning cloudy or dull in all but the southern countries, with rain in the west and north of our Islands, and also in the west of Norway and the south of Sweden; snow falling at Hernösand and St. Petersburg. Fine and bright over Italy, the Spanish Peninsula, and the south of France. Sky clearing later in the west and north of our Islands, but slight rain falling in the south of England, and larger quantities in neighbouring parts of the Continent. Snow occurring in several parts of Finland and Scandinavia.

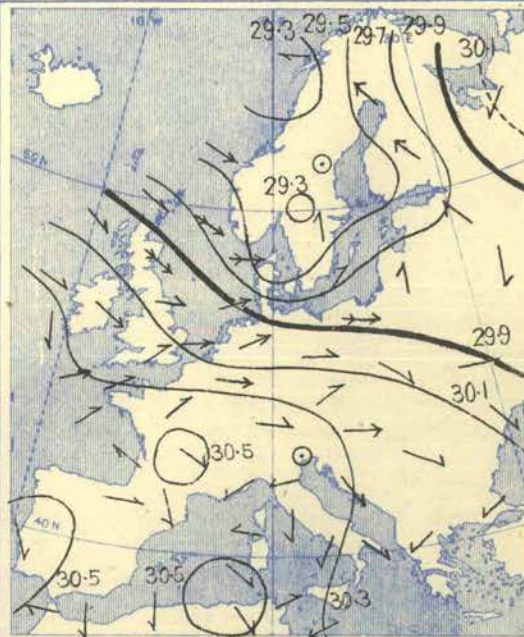
Temperature changed very little in our Islands, risen in Scandinavia and Denmark, fallen in most other countries. Morning readings highest, 61° at Malta, and 59° at Sanguinaire and Brindisi; above 50° in nearly all parts of the United Kingdom. Lowest, -5° Fahr. at Archangel, +7° at Haparanda, and 11° at Uleaborg; below the freezing point over the northern parts of Russia and Scandinavia generally, as well as in some parts of central France. Rising during day to 55° and upwards in many parts of our Islands and France, and exceeding 60° over southern Europe and the Mediterranean.

Barometer and Wind.

8 a.m.



6 p.m.



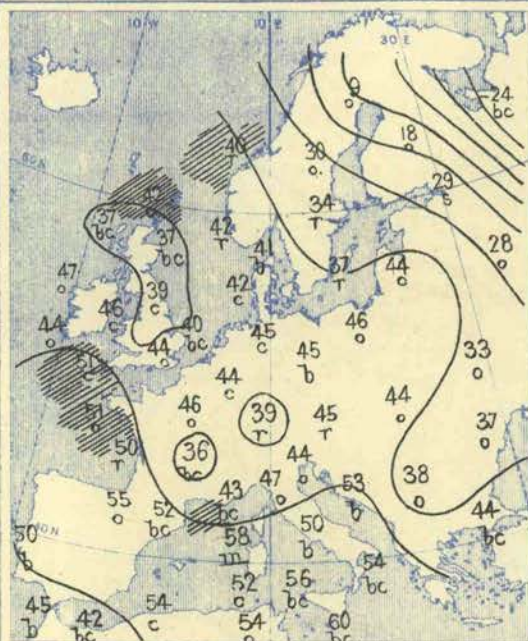
Wind South-Westerly over north-western Europe generally, and very strong in force on many parts of our own western and northern coasts; Westerly over Denmark, Germany, Austria, and the south of Russia; Easterly (North-East to South-East) over the northern parts of Russia and Scandinavia. Northerly over Italy and Greece; Easterly over the Spanish Peninsula and south of France. Subsequently veering to the North-Westward in the west and north of our Islands, and moderating in force. Increasing considerably from the Westward over Denmark and the Baltic.

Barometer 30.6 ins. and upwards over central France; 30.3 ins. and upwards in an anticyclone embracing nearly the whole of central and southern Europe. Lowest, 29.4 ins. and less in a depression lying off the northern part of the Norwegian coasts; 29.5 ins. and less in another disturbance over central Russia. Rapid rise of barometer taking place later in the north of our Islands, and less decided rise on our western coasts. Depression over Russia moving away quickly to the eastward.

Tuesday, 13th December.

Temperature and Weather.

8 a.m.

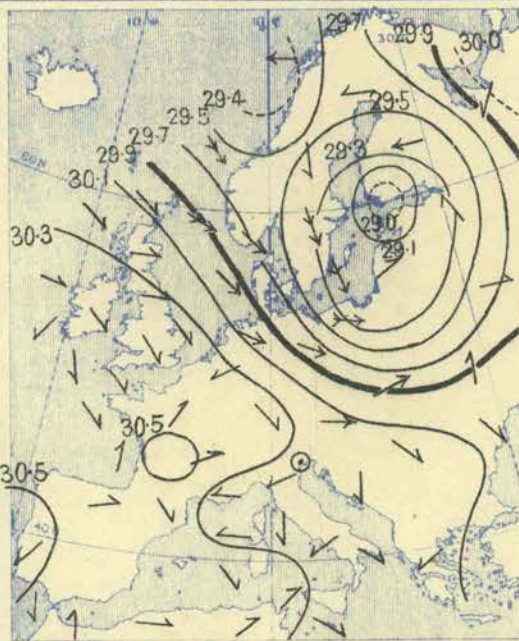


Weather in morning fine in the north of Scotland and the eastern and central parts of England, as well as over the Netherlands, Denmark, north Germany, and the greater part of southern Europe. Cloudy or dull elsewhere, with rain in the west of Norway and the south of Sweden, as well as in some parts of Austria, south Germany and northern Italy. Snow falling at Kuopio and St. Petersburg. A little rain falling later in the west and extreme north of our Islands. Snow falling in many parts of Russia.

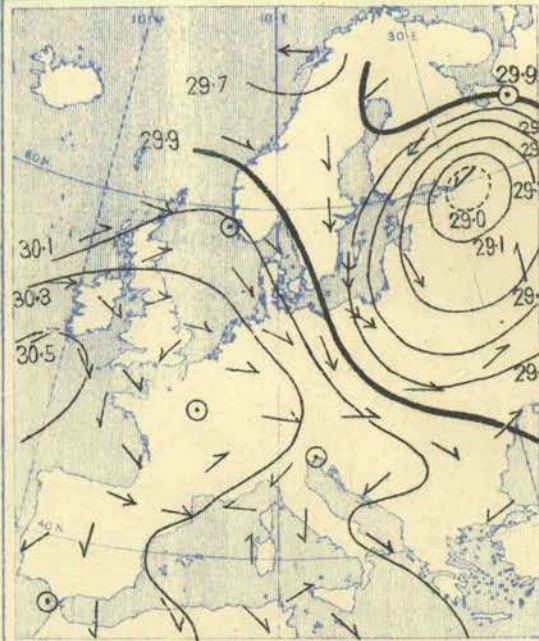
Temperature fallen considerably in our Islands, but risen in France and also over the Baltic provinces and the Gulf of Finland. Morning readings highest, 60° at Malta, 58° at Sanguinaire, and 56° at Palermo; above 50° at most of the Mediterranean and Adriatic stations, and also in the west of France. Lowest, -24° Fahr. at Archangel, +9° at Haparanda, 10° at Uleaborg, and 18° at Kuopio; below the freezing point over the northern parts of Russia and Scandinavia generally, and very little above it in some parts of central England. Decided rise taking place later in the west and north of our Islands, but daily maxima mostly below 50°. Thermometer exceeding 60° over Spain, southern Italy and the extreme south of France.

Barometer and Wind.

8 a.m.



6 p.m.



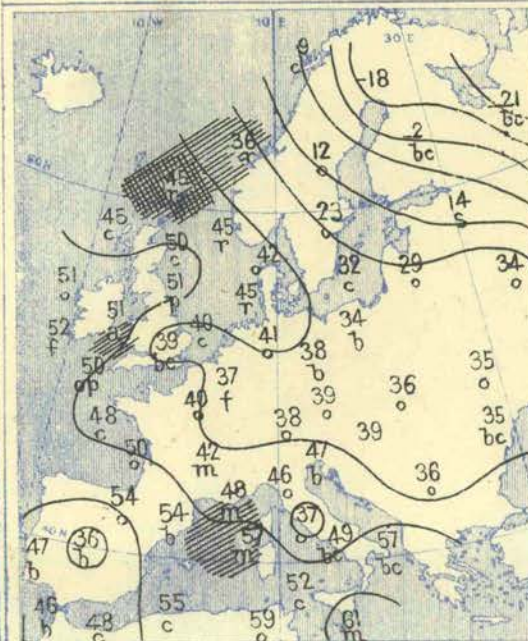
Wind light from the Westward or North-Westward over the United Kingdom generally, but Northerly at some of our extreme southern stations. Strong to a gale from the North Westward over Denmark and the southern parts of Scandinavia, and from the Westward over north Germany and the Baltic Provinces, but Easterly in the extreme northern parts of Russia and Scandinavia. Light from the South-Westward over the greater part of France, Northerly or North-Easterly over Spain and central Italy, Westerly in Austria. Subsequently backing to the South-Westward in Ireland and Scotland; strong gales from between north-east and north-west prevailing over Finland, Sweden and the Baltic.

Barometer highest, 30.5 ins. and upwards over Portugal and some parts of central France, 30.2 ins. and upwards in an anticyclone embracing nearly the whole of western and southern Europe. Lowest, 29.0 ins. and less in a deep depression with its centre over the Gulf of Finland, 29.4 ins. and less in a shallower disturbance lying off the northern parts of the Norwegian coasts. Both depressions moving eastwards later, but new disturbance beginning to appear off the north of Scotland.

Wednesday, 14th December.

Temperature and Weather.

8 a.m.

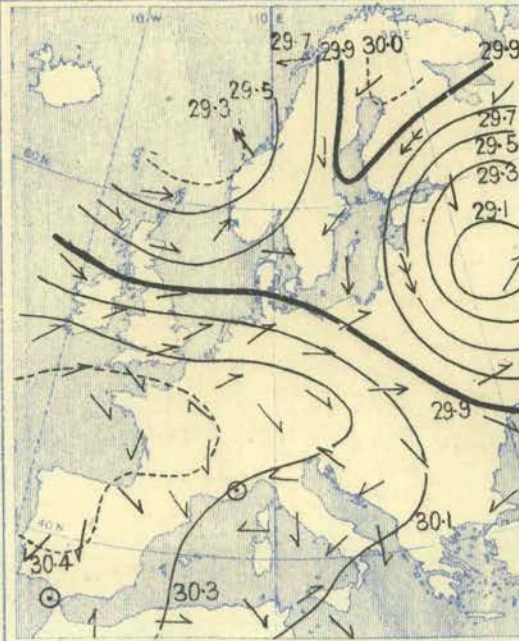


Weather in morning cloudy or dull in our Islands and the western, northern and central parts of the Continent generally, rain falling at several of our own western stations and also in the Shetlands and west of Norway, and snow at St. Petersburg. Fine in the extreme northern parts of Russia and Scandinavia; and also over southern Europe generally, but dull over northern Italy with rain at Florence. A little rain falling later at most of our own western, southern and extreme northern stations, as well as in the western parts of the Continent generally, heavy snow reported in Sweden. Aurora seen at Aberdeen.

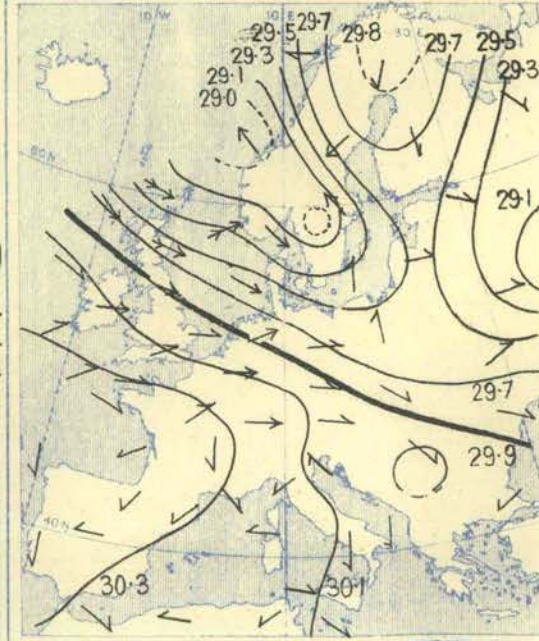
Temperature risen considerably in our Islands, but fallen at most of the Continental stations. Morning readings highest, 61° at Malta, 59° at La Calle, and 57° at Sanguinaire and Brindisi, above 50° over the Mediterranean generally, and also at many of our own western and northern stations. Lowest, -21° Fahr. at Archangel, -18° at Haparanda, and -11° at Uleaborg; below the freezing point over nearly the whole of Scandinavia and northern Russia. Rising during day to between 50° and 55° in nearly all parts of our Islands; Exceeding 55° over Spain, southern Italy and the extreme south of France.

Barometer and Wind.

8 a.m.



6 p.m.



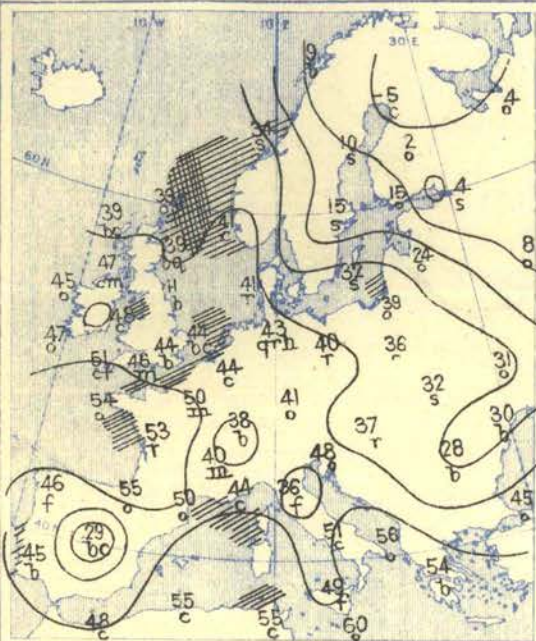
Wind Westerly or South-Westerly over north-western Europe generally, and strong to a gale in force in the north of Scotland, strong from the Eastward or South-Eastward in the west of Norway. Northerly or North-Easterly over Sweden and northern Russia, with a gale in Finland and the Baltic Provinces. Westerly (South-West to North-West) over Germany, Austria, and the south of Russia. Light from the Northward (North-West to North-East) over the greater part of France, Spain and Italy. Subsequently increasing to a gale from the westward or north-westward, on most parts of our own northern coasts, and also on the eastern shores of the north sea.

Barometer highest, 30.4 ins. and upwards over Spain, the Bay of Biscay and the greater part of France, 30.2 ins. and upwards in an anticyclone embracing all the more south-western parts of Europe. Lowest, 29.0 ins. and less in a depression over central Russia, 29.4 ins. and less in another disturbance lying to the westward of Norway. Russian depression subsequently moving away to the eastward, Norwegian disturbance spreading south-eastwards across Scandinavia; small secondary appearing in its rear and moving eastwards.

Thursday, 15th December.

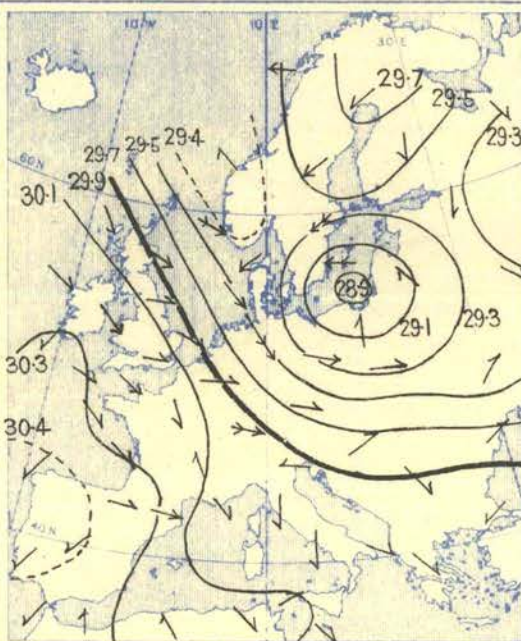
Temperature and Weather.

8 a.m.

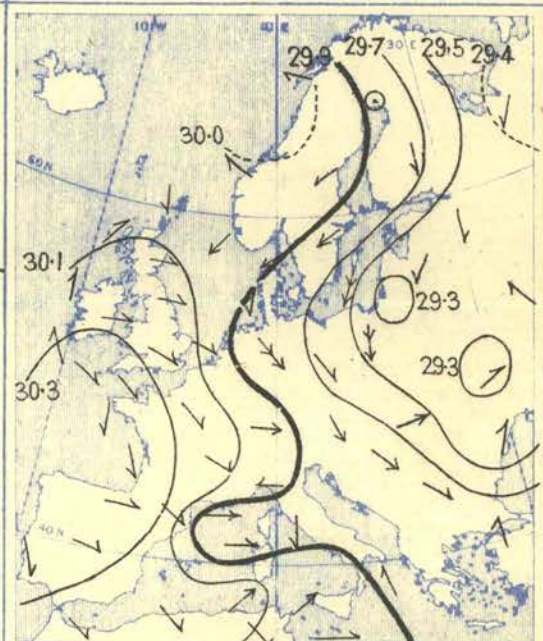


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of the United Kingdom, but dull on our extreme western and northern coasts. Cloudy or dull over the greater part of the Continent, with rain in many parts of France, Denmark, Germany and Austria; snow falling at several of the Scandinavian stations, as well as at St. Petersburg, Breslau and Lemberg. Fine over the Spanish Peninsula and the extreme south of France. A little rain falling later in the west and extreme north of our Islands, and snow in Russia.

Temperature fallen in our Islands, and the northern and eastern parts of the Continent, changed irregularly elsewhere. Morning readings highest, 60° at Malta, 59° at La Calle, and 57° at Sanguinaire; above 50° at most of the Mediterranean stations, as well as in the west of France, and in the Scilly and Channel Islands. Lowest, -6° Fahr. at Uleaborg, -5° at Haparanda, and -2° at Helsingfors; considerably below the freezing point in nearly all parts of Russia and Scandinavia, and very little above it in central Ireland. Rising during day to 50° and upwards on several parts of our own western and southern coasts; exceeding 55° in the west and south of France, and exceeding 60° in Spain and southern Italy.

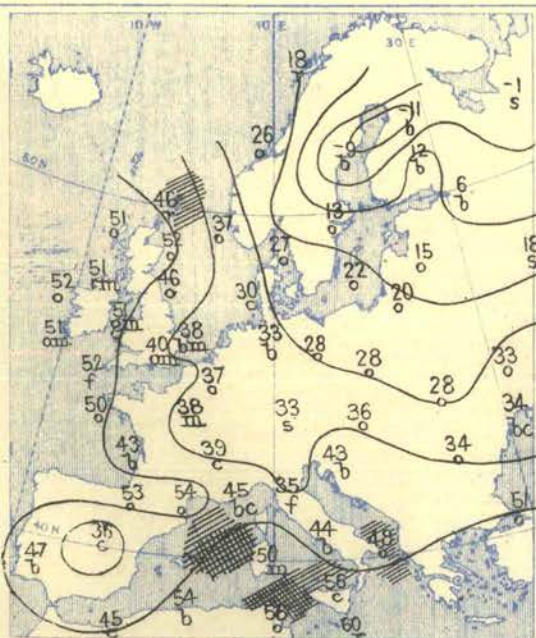
Wind North-Westerly over nearly the whole of western and southern Europe. Strong in force on many parts of our own northern coasts, and blowing a gale on the eastern shores of the North Sea. Strong from the Westward over Germany and Austria; light from the South-Westward in the south of Russia; Northerly or North-Easterly over northern Russia and Sweden, with a gale in the south of the latter country. Subsequently backing to the Southward on our own extreme western coasts, no important change occurring elsewhere.

Barometer highest, 30.4 ins. and upwards over Spain; 30.2 ins. and upwards in an anticyclone extending thence over the western parts of France and the United Kingdom. Lowest, 28.9 ins. and less in a deep depression, with its centre over the northern part of the Baltic; 29.4 ins. and less in a shallower system over the west of Norway. Depressions subsequently moving south-eastwards, but new disturbance beginning to approach our own northern coasts in evening.

Friday, 16th December.

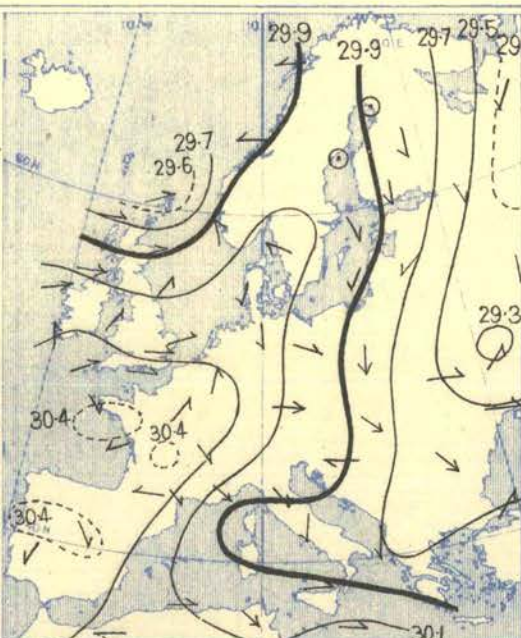
Temperature and Weather.

8 a.m.

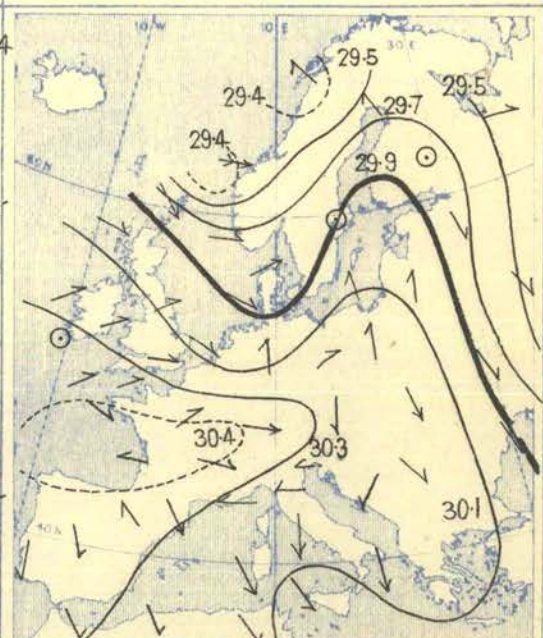


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over western Europe as a whole, with fog at the mouths of the English and Bristol Channels and slight rain at several of our own western and northern stations. Fine over the southern countries generally, as well as over Finland and central Sweden, but dull over northern, eastern and central Europe as a whole, with snow at Archangel and Moscow as well as at Munich. A little rain falling later in most of the western and central countries, and snow in the southern parts of Scandinavia and also at Cuxhaven. Aurora seen at Aberdeen.

Temperature risen in the west and north of our Islands and also in Spain, Italy and Russia, but fallen elsewhere. Morning readings highest, 60° at Malta, 58° at La Calle, and 56° at Cagliari, Palermo and Tunis; above 50° in the western and northern parts of our Islands. Lowest, -11° Fahr. at Uleaborg, -9° at Helsingfors, and -1° at Archangel; below the freezing point over northern and eastern Europe generally. Rising during day to between 50° and 55° in nearly all parts of our Islands; exceeding the latter point in the south of France and exceeding 60° over Spain and southern Italy.

Wind light to fresh from the Westward or South-Westward in our Islands and from the Eastward or South-Eastward on the Norwegian coasts. Calm in the Gulf of Bothnia. Northerly over northern Russia, the Baltic and Denmark, North-Westerly to Westerly in Germany and Austria, South-Westerly in the south of Russia. Light from the Eastward or North-Eastward over the Bay of Biscay and the Portuguese coasts; Northerly or North-Westerly over Italy and the south of France. No important change occurring later, but wind veering to the Northward of West in many parts of our Islands.

Barometer highest, 30.48 ins. at Madrid; 30.3 ins. and upwards in an anticyclone covering nearly the whole of Spain, France, the Bay of Biscay and the extreme south of our Islands. Lowest, 29.4 ins. and less in two depressions lying over Russia; 29.6 ins. and less in another disturbance lying near the Shetlands. Latter disturbance moving away later to the north-eastwards and barometer rising in most parts of our Islands.

Saturday, 17th December.

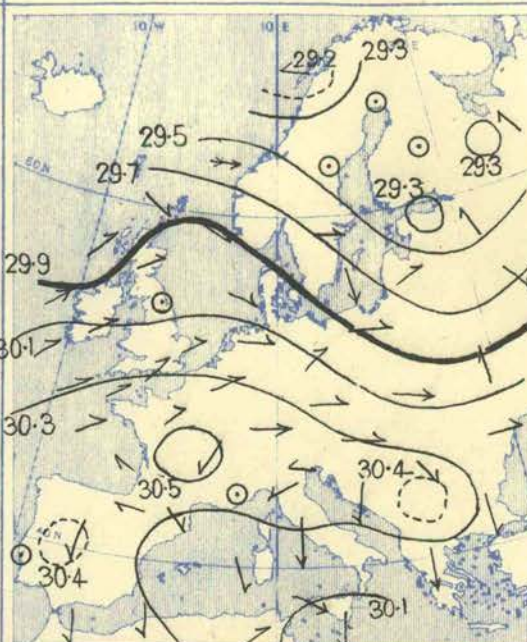
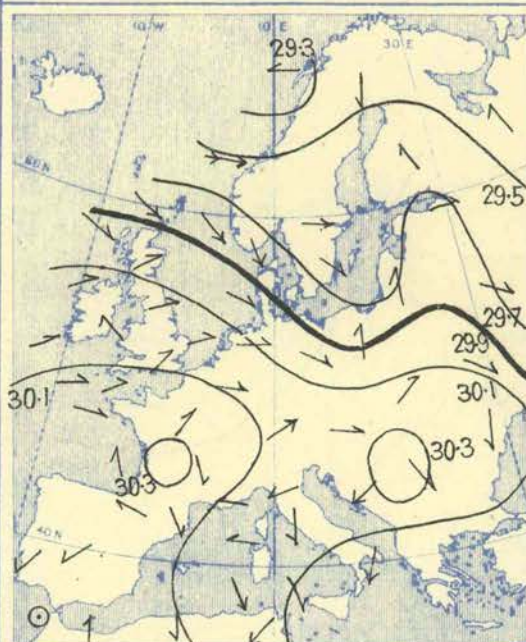
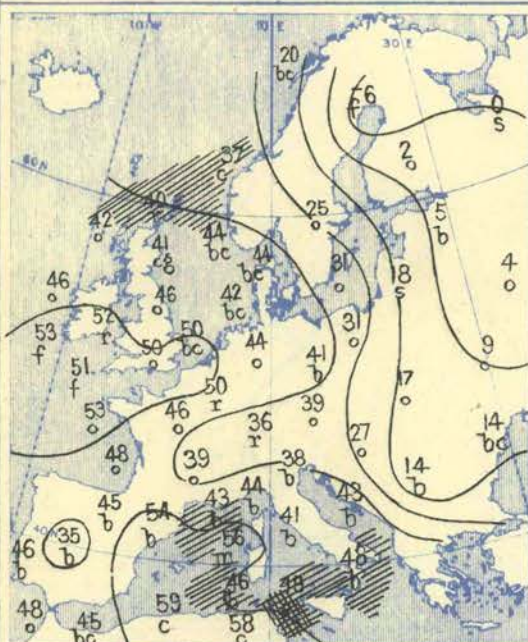
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning cloudy or dull over western Europe as a whole, with fog and slight rain in the south of Ireland, the western and central parts of England and the north-west of France. Fine over the southern countries as well as at most of the Scandinavian and Danish stations; dull over Russia and central Europe, with rain at Brussels and Munich, and snow at Archangel, Helsingfors and Riga. Rain falling later over the whole of our Islands and the neighbouring countries, but amounts mostly slight.

Temperature fallen rapidly in the south of Russia and to a less extent over southern Europe generally and also in the north of our Islands. Morning readings highest, 59° at Algiers, 58° at La Calle, and 56° at Sanguinaire and Tunis; above 50° at several of our own western and southern stations. Lowest, -6° Fahr. at Haparanda, 0° zero at Archangel, 2° at Kuopio, and 4° at Moscow; below the freezing point over nearly the whole of our northern parts of the United Kingdom and reaching 55° at Liverpool and Scilly. Exceeding 55° also over the Spanish Peninsula and the west and south of France.

Wind light from the Westward or South-Westward over the greater part of our Islands and also in the Netherlands and the north of France, but Easterly or South-Easterly over north Wales and central Ireland. Moderate to strong from the Westward or North-Westward over Denmark, North Germany, and the southern parts of Scandinavia, and also over central and southern Russia; Southerly or South-Easterly over the northern parts of Russia. Moderate to strong from the Northward or North-Eastward over Italy and the Adriatic; light from the Eastward or North-Eastward over the Spanish Peninsula and the south of France, subsequently backing to the Southward on our own extreme north-west coasts.

Barometer highest, 30.5 ins. and upwards over central France; 30.2 ins. and upwards in an anticyclone embracing nearly the whole of central and southern Europe, and extending northwards over England and the south of Ireland. Lowest, 29.3 ins. and less in a depression off the northern parts of the Norwegian coasts; 29.6 ins. and less in a secondary system lying over the Gulf of Bothnia and the northern part of the Baltic. Secondary depression moving north-eastwards later; new disturbance appearing off the extreme north-west of our Islands.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying with the wind, the force is indicated thus: $\gg$ = a heavy gale; $\gg$ = a gale; $\gg$ = a fresh to strong breeze; $\gg$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: —b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The general distribution of pressure was very similar to that noticed in the preceding week. Over the southern countries the weather was under the influence of a large anticyclone, while in the north it was affected by numerous cyclonic disturbances which skirted our own northern coasts and afterwards moved across Scandinavia to Russia. The position of the anticyclone was, however, somewhat different from that of last week, the highest pressures being found over the south-western, instead of the southern and south-eastern parts of the Continent. Owing to this the depressions in the north, after skirting the Norwegian coasts, moved in track lying a little to the south of east, their centres moving directly across the more central parts of Sweden, and afterwards passing on to Central Russia. Over northern Europe the weather was therefore extremely unsettled, with frequent gales from the Westward and Northward, and considerable falls of rain and snow, the fluctuations in temperature being sudden and often very large. In a modified degree our own northern coasts were affected in a similar manner. Rain was frequent, as also were the changes in temperature, and at times the wind increased considerably from West or North-West, a stiff gale being experienced over Scotland on the 14th. In the southern parts of the Kingdom, however, the weather was far drier and quieter, and temperature as a rule greatly in excess of the average. Over southern Europe the conditions were mostly fine and dry, the only exception occurring on the 13th and 14th, when a shallow depression formed over the Gulf of Genoa and occasioned a little rain in some parts of northern Italy.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 296.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	0.5	?	1	?	WESTBOURNE (Emsworth)	8.0*	- 2.9	15*	5
STRATHPEFFER SPA	?	?	?	?	WATERGATE (Emsworth)	?	?	?	?
EDINBURGH	0.5	- 5.5	1	- 11	BRIGHTON	5.8	- 5.2	11	- 10
MORPETH	8.4	?	17	?	EASTBOURNE	7.2	- 4.8	13	- 10
NEWCASTLE-ON-TYNE	6.9	?	14	?	VENTNOR HOSPITAL	7.1	?	13	?
OSWALDKIRK (Yorkshire)	9.5	+ 1.1	19	+ 3	SOUTHPORT	3.4	?	7	?
HOLLESLEY BAY	11.7	?	22	?	COLWYN BAY	10.1	?	19	?
SHEFFIELD	11.3	?	22	?	TENBY	4.9	- 5.4	9	- 11
WORKSOP	5.8	- 2.0	11	- 4	NEWQUAY	4.5	- 6.8	8	- 14
THURCASTON (Leicestershire)	8.4	+ 1.1	16	+ 2	TORQUAY	10.0*	- 1.7	18*	- 4
PLUMSTEAD COMMON	0.5	?	1	?	GUERNSEY	3.1*	- 7.1	6*	- 12
MARGATE	7.1	- 4.0	13	- 7					

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATUM.—In last week's report the Sunshine values for Westbourne were erroneously entered to Watergate. The recorder at the latter place is temporarily dismantled.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.VOL. XV. No. 51.]
Third Series.

WEEK ENDING SATURDAY, DECEMBER 24TH, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1868-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 302.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	51	28	45.3	36.1	40.9	3 above	Day-deg. 24	Day-deg. +17	Day-deg. 7	Day-deg. -23	Day-deg. 2323	Day-deg. +354	Day-deg. 524	Day-deg. -283
	1. SCOTLAND, EAST	52	28	44.7	35.3	40.2	4 above	8	+ 2	27	- 11	2610	+254	585	-293
	2. ENGLAND, N.E.	55	29	44.8	35.4	40.3	2 above	8	0	26	- 6	2954	+384	408	-296
	3. ENGLAND, EAST	57	24	43.1	33.4	38.4	1 above	3	- 6	32	- 5	3300	+331	490	-308
	4. MIDLAND COUNTIES	58	25	44.8	34.2	39.7	2 above	8	- 2	31	- 6	3219	+277	496	-324
	5. ENGLAND SOUTH	57	28	46.1	37.5	42.0	3 above	11	- 4	13	-14	3682	+415	263	-326
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	29	48.2	40.0	44.3	5 above	25	+13	6	-18	2868	+354	308	-297
	7. ENGLAND, N.W.	56	31	46.6	38.1	42.5	3 above	20	+ 8	11	-14	3184	+428	260	-315
	8. ENGLAND, S.W.	55	26	48.3	38.5	43.6	3 above	26	+ 7	10	- 8	3551	+449	232	-203
	9. IRELAND, NORTH	53	29	47.5	39.1	43.5	4 above	23	+10	8	-15	3021	+375	270	-251
	10. IRELAND, SOUTH	56	28	49.2	39.9	44.8	3 above	28	+ 7	6	-12	3546	+500	201	-106
	—CHANNEL ISLANDS	56	36	49.9	43.2	46.7	2 above	33	+ 2	0	- 5	4275	+651	55	-109

DISTRICTS. (See p. 302.)		Rainfall.						Bright Sunshine.								
		For the Week.			From January 2nd, 1898.			For the Week.				From January 2nd, 1898.				
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	10ths of in. 18	10ths of in. 5 more	256	+16	Ins. 64.4	+15.3	8	- 1	7	- 3	1224	+167	28	+ 4
	1. SCOTLAND, EAST	4	3	3 less	199	+ 4	29.4	- 1.9	7	0	14	0	1310	+ 43	30	+ 1
	2. ENGLAND, N.E.	2	1	4 less	171	-13	21.4	- 4.7	10	+ 2	19	+ 4	1231	- 17	29	0
	3. ENGLAND, EAST	3	4	1 less	151	-30	19.5	- 6.3	21	+10	41	+20	1542	- 7	35	0
	4. MIDLAND COUNTIES	2	3	3 less	156	-21	20.6	- 7.3	15	+ 7	30	+13	1378	+ 35	32	+ 1
	5. ENGLAND, SOUTH	1	less than 1	6 less	145	-27	20.6	- 8.2	21	+10	38	+19	1525	- 16	36	- 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	9	3 less	221	+16	44.5	- 4.2	6	- 1	13	0	1313	+ 2	31	0
	7. ENGLAND, N.W.	3	2	6 less	195	+ 2	32.7	- 2.0	11	+ 5	22	+ 9	1425	+112	33	+ 2
	8. ENGLAND, S.W.	2	2	9 less	181	-15	33.1	- 5.8	19	+ 8	35	+14	1685	+ 47	39	+ 1
	9. IRELAND, NORTH	5	6	4 less	238	+15	36.9	- 0.5	4	- 4	8	- 8	1284	+ 25	29	0
	10. IRELAND, SOUTH	4	4	5 less	196	- 6	37.7	- 0.5	9	- 2	17	- 4	1474	+ 42	34	+ 1
	— CHANNEL ISLANDS	3	1	7 less	202	- 7	26.3	- 7.0	14	+ 5	25	+ 9	1954	+123	46	+ 3

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E., the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather continued very unsettled and rainy in the extreme northern and north-western parts of the Kingdom, but elsewhere it was generally fair and dry, and at many of our southern and south-eastern stations very clear and bright.

Temperature was considerably lower than of late, but was still above the mean, the excess ranging from 1° in England E. to 4° in Scotland E. and Ireland N., and to 5° in Scotland W. The highest of the maxima were recorded on the 18th over England, and on the 23rd or 24th over Ireland and Scotland; they varied from 58° in the Midland Counties, and 57° in England E. and S. to 51° in Scotland N. The lowest of the minima, which were registered during the middle of the week in the western and northern districts, and towards its close in the English districts, ranged from 24° in England E., 25° in the Midland Counties, and 26° in England S.W. to 31° in England N.W., and 36° in the Channel Islands.

Rainfall was again in excess in Scotland N., and less than the mean elsewhere; in most parts of England and in the Channel Islands the fall was very slight.

Bright Sunshine was deficient over Ireland, and in Scotland N., and just equal to it in Scotland E. and W. Over England, however, there was an excess, that in most places being large. The percentage of the possible duration ranged from 41 in England E., 38 in England S., and 35 in England S.W., to 14 in Scotland E., 13 in Scotland W., 8 in Ireland N., and 7 in Scotland N.

Barometer and Wind.—At the commencement of the week a rather deep depression was moving north-eastwards from the north of Scotland to Scandinavia, occasioning fresh or strong Westerly winds in nearly all parts of the Kingdom. As this system moved away an anticyclone appeared over Ireland, and, moving slowly eastwards, caused a general veering of the wind to the North-Westward. Towards the end of the period the anticyclone was moving away eastwards and south-eastwards over the Continent, and depressions travelling north-eastwards commenced to skirt our extreme western and northern coasts, bringing about a return of Southerly and South-Westerly winds to all districts. At many of our western stations the Southerly wind increased to the force of a gale.

II.—DATA from which the SUMMARY on page 301 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.							Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.									
								Above 42° F.	Below 42° F.	Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	47	32	46.1	38.1	42.3	+ 3.2	18	11	6	0.61	- 0.36	*	*	*
	Stornoway	49	30	44.7	34.7	39.9	+ 1.0	8	29	7	3.14	+ 1.86	5.1	- 0.7	12
	Wick	49	30	44.7	35.0	40.0	+ 2.8	8	27	6	0.70	0.00	*	*	*
	Laing	46	28	42.2	33.7	38.1	+ 1.9	1	30	7	0.62	- 0.28	*	*	*
	Glencarron	49	32	45.6	36.7	41.3	+ 4.7	10	22	7	3.51	+ 1.31	*	*	*
	Fort Augustus	50	29	46.2	35.5	41.1	+ 3.4	12	27	6	1.18	+ 0.07	1.9	+ 0.3	4
	Fort William	51	34	47.8	39.2	43.7	+ 4.9	24	8	7	2.97	+ 0.35	2.2	- 0.3	5
1. SCOTLAND E.	Nairn	50	31	45.4	35.9	40.8	+ 3.5	10	25	4	0.41	- 0.01	*	*	*
	Aberdeen	47	32	43.3	35.6	39.6	+ 2.4	4	24	4	0.22	- 0.44	10.8	+ 1.8	24
	Braemar	40	30	42.8	33.8	38.5	+ 4.3	2	31	5	0.59	- 0.09	2.0†	- 2.8†	4†
	Ochertyre	51	28	45.3	35.3	40.5	+ 4.0	9	27	6	0.46	- 0.50	*	*	*
	Leith	52	32	47.3	36.9	42.3	+ 3.4	24	14	1	0.02	- 0.38	*	*	*
	Marchmont	52	30	44.3	34.3	39.5	+ 3.3	6	30	3	0.16	- 0.60	9.5	+ 2.0	20
2. ENGLAND, N.E.	Alnwick Castle	50	31	46.5	35.9	41.4	+ 3.5	13	26	3	0.21	- 0.46	*	*	*
	Durham	53	31	45.2	33.7	39.7	+ 2.9	9	33	3	0.06	- 0.54	11.7	+ 1.7	24
	Shields	52	20	44.9	35.7	40.5	+ 2.0	8	25	2	0.13	- 0.37	*	*	*
	Scarborough	55	29	44.6	34.6	39.8	+ 2.5	7	29	1	0.11	- 0.39	8.2	+ 2.2	16
	Spurn Head	52	32	42.9	36.9	40.0	+ 1.1	3	19	2	0.06	- 0.37	*	*	*
3. ENGLAND, E.	Hillington	55	28	41.7	33.5	37.8	+ 1.1	0	29	2	0.24	- 0.29	19.7	+ 10.4	39
	Yarmouth	54	28	42.6	35.0	39.0	+ 1.1	2	26	3	0.40	- 0.16	*	*	*
	Geldeston	56	25	44.5	33.1	39.0	+ 0.9	7	34	2	0.49	+ 0.02	24.0	+ 13.0	46
	Cambridge	57	25	43.4	32.6	38.2	+ 1.0	4	35	2	0.40	0.00	18.3	+ 9.0	35
	Rothamsted	56	24	43.3	32.7	38.2	+ 0.8	4	25	4	0.51	- 0.04	18.6	+ 8.8	36
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	26	44.1	33.0	38.8	+ 1.8	6	35	2	0.04	- 0.44	*	*	*
	Loughborough	58	29	45.6	35.3	40.7	+ 3.3	10	28	3	0.29	- 0.23	*	*	*
	Stamford (Duddington)	55	25	43.1	33.0	38.3	+ 1.7	3	34	3	0.22	- 0.26	*	*	*
	Cheadle	54	28	43.2	33.1	38.4	+ 1.8	3	34	3	0.18	- 0.54	*	*	*
	Shirley (near Solihull)	54	29	44.6	34.3	39.7	+ 3.0	7	31	3	0.24	?	*	*	*
	Churchstoke	54	30	46.2	35.1	40.9	+ 3.0	12	29	3	0.25	- 0.45	8.6	+ 0.1	17
	Hereford	56	30	46.4	35.4	41.1	+ 2.9	12	28	2	0.44	- 0.08	*	*	*
	Cirencester	53	25	44.9	33.1	39.2	+ 2.0	8	35	1	0.38	- 0.24	21.4	+ 11.9	41
	Oxford	55	30	45.0	35.4	40.4	+ 2.2	8	27	2	0.36	- 0.08	19.3	+ 9.7	37
5. ENGLAND, S.	London	56	29	45.9	35.6	41.0	+ 2.0	11	27	1	0.02	- 0.48	10.7†	+ 5.9†	21†
	North Foreland	56	32	44.4	37.6	41.1	+ 1.7	7	18	2	0.04	?	*	*	*
	Cranley	54	28	46.3	37.3	42.0	+ 2.0	12	13	2	0.06	- 0.54	*	*	*
	Dungeness	53	33	45.5	38.2	42.0	+ 1.5	10	11	2	0.08	- 0.57	23.7	+ 10.7	44
	Hastings (St. Leonards)	57	32	48.6	36.9	43.0	+ 3.0	28	14	1	0.02	- 0.70	23.3	+ 12.1	43
	Hurst Castle	54	33	48.0	41.1	44.7	+ 3.8	23	3	0	-	- 0.65	*	*	*
	Shaftesbury	53	31	44.3	36.1	40.4	+ 4.2	6	24	2	0.06	- 0.62	*	*	*
	Laudale (Loch Sunart)	53	35	49.8	39.3	44.8	+ 4.7	31	8	7	2.36	+ 0.32	*	*	*
6. SCOTLAND, W.	Glasgow	51	34	46.6	39.1	43.0	+ 4.6	19	8	5	0.66	- 0.24	4.2	+ 0.2	9
	Ardrossan	51	33	48.9	41.7	45.4	+ 5.1	25	1	5	0.21	- 0.65	*	*	*
	Glenlee	52	29	47.2	38.1	42.8	+ 5.4	22	11	6	0.93	- 0.51	*	*	*
	Douglas (Isle of Man)	54	36	48.5	42.0	45.4	+ 4.3	24	0	4	0.42	- 0.61	7.9	- 1.5	16
	Stonyhurst	52	33	44.3	35.8	40.2	+ 2.5	6	24	3	0.22	- 0.34	13.1	+ 6.8	26
7. ENGLAND, N.W.	Blackpool	50	31	46.6	37.1	42.0	+ 3.1	13	14	4	0.16	- 0.54	7.9	+ 2.1	16
	Manchester (Prestwich)	53	31	44.5	34.9	39.9	+ 2.5	7	28	4	0.13	- 0.68	8.1	?	16
	Liverpool Obsy. (Bidston)	54	32	46.0	38.7	42.5	+ 2.6	17	9	2	0.22	- 0.36	*	*	*
	Llandudno	56	37	49.8	42.1	45.1	+ 3.4	30	5	3	0.22	- 0.48	11.4	+ 4.4	22
	Holyhead	52	39	48.6	42.1	45.5	+ 2.7	25	0	3	0.10	- 0.75	*	*	*
8. ENGLAND, S.W.	Llandovery	54	26	48.1	34.1	41.4	+ 3.2	17	34	3	0.47	- 0.77	*	*	*
	Pembroke	53	40	50.0	43.9	47.1	+ 3.7	36	0	2	0.20	- 0.70	16.7	+ 6.3	32
	Clifton	54	29	47.8	36.3	42.3	+ 3.1	26	16	1	0.34	- 0.36	*	*	*
	Arlington (N. Devon)	52	34	46.4	38.3	42.5	+ 2.6	19	10	1	0.31	- 0.98	*	*	*
	Cullompton	55	27	47.3	34.2	41.0	+ 2.6	15	33	2	0.02	- 0.78	19.0	+ 10.2	35
	Falmouth	54	37	49.4	42.2	45.9	+ 2.0	27	0	2	0.09	- 1.61	19.4	+ 6.6	35
	Plymouth	53	33	48.5	39.7	44.3	+ 2.0	26	6	2	0.07	- 0.78	17.9	+ 6.2	32
	Prawle Point	52	35	48.7	39.3	44.2	+ 1.6	27	8	2	0.03	- 0.81	*	*	*
9. IRELAND, N.	Malin Head	50	39	47.1	41.9	44.6	+ 3.0	19	0	5	0.43	- 0.15	*	*	*
	Londonderry	52	34	47.4	38.2	43.0	+ 3.4	23	11	5	0.77	?	*	*	*
	Edenfel (Omagh)	51	30	45.9	37.1	41.7	+ 4.4	11	21	4	0.32	- 0.51	*	*	*
	Belmullet	52	38	49.0	40.7	45.0	+ 1.9	26	4	6	1.34	- 0.36	*	*	*
	Markree Castle	53	32	48.0	37.9	43.2	+ 4.2	26	11	4	0.68	- 0.28	1.6	- 6.4	3
	Armagh	53	29	47.4	38.3	43.0	+ 4.8	24	10	3	0.26	- 0.40	5.8	- 2.2	12
	Donaghadee	50	34	47.6	39.7	43.8	+ 3.0	22	6	5	0.30	- 0.36	*	*	*
10. IRELAND S.	Dublin	55	32	48.8	40.6	44.9	+ 3.8	26	4	1	0.04	- 0.51	10.3	- 1.5	20
	Parsonstown	53	29	48.0	38.4	43.4	+ 4.0	25	10	4	0.14	- 0.53	9.7	- 0.4	19
	Kilkenny	53	28	47.9	38.4	43.3	+ 3.0	24	10	3	0.34	- 0.41	*	*	*
	Roche's Point	54	33	50.7	41.1	46.1	+ 2.3	32	3	4	1.00	- 1.00	*	*	*
	Valencia	54	34	50.9	41.0	46.2	+ 1.1	34	3	4	0.65	- 0.74	5.7	- 4.3	11
	Killarney	56	29	49.9	40.5	45.4	+ 2.4	30	4	6	1.26	?	*	*	*
CHANNEL ISLANDS	Foynes	54	35	48.2	39.4	44.0	+ 2.8	25	7	3	0.40	?	*	*	*
	Scilly (St. Mary's)	56	41	51.9	44.7	48.4	+ 1.8	45	0	2	0.05	- 0.80	7.4	?	13
	Jersey	55	36	47.9	41.7	44.9	+ 1.6	22	1	3	0.19	- 0.65	19.0	+ 4.8	34

Stations marked $\mathcal{S}$ are in connection with the Royal Meteorological Society, and those marked $\mathcal{S}$ with the Scottish Meteorological Society.

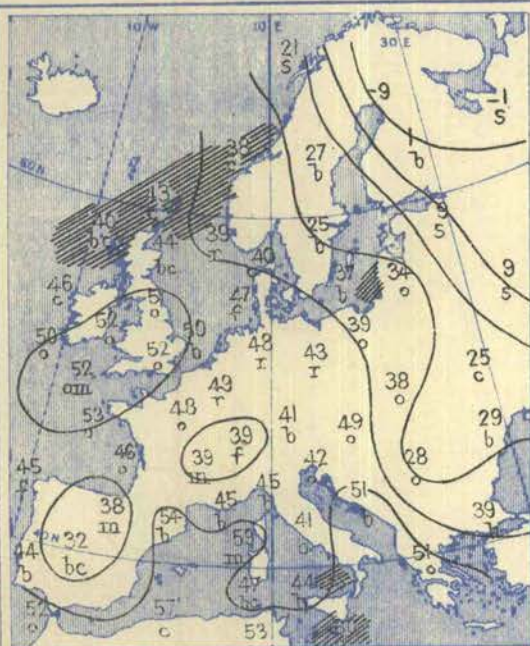
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 18th December.

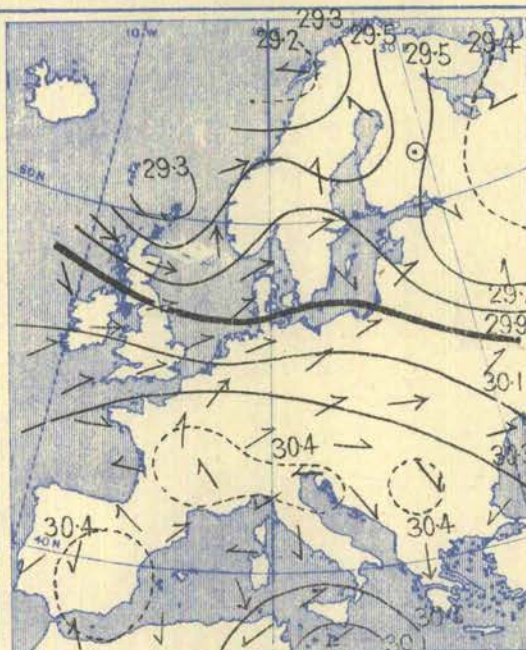
Temperature and Weather.

8 a.m.

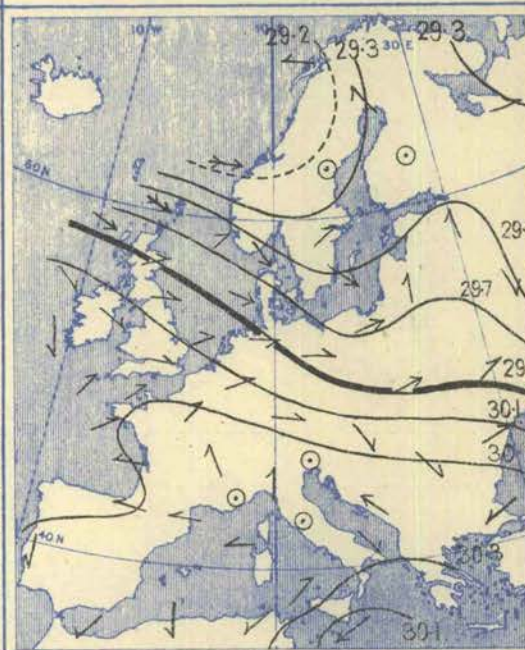


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the eastern and central parts of England and also over southern Europe generally, and in Sweden. Cloudy or dull in nearly all other parts of Europe, with fog or mist over France and the English Channel and showers in the north of Scotland. Rain falling also in many parts of Denmark and north Germany, as well as at Brussels and Skudenes, and snow in Russia and the north of Scandinavia. A little rain falling later in most parts of north-western Europe; thunderstorm with unusually large hail passing over Sumburgh Head at midnight.

Temperature risen in most countries. Morning readings highest, 60° at Malta, 59° at Sanguinaire and 58° at La Calle; above 50° at most of the Mediterranean and Adriatic stations and also over England and the south of Ireland. Lowest, -9° at Uleaborg, -8° at Haparanda, -1° at Archangel, and +1° at Kuopio; below the freezing point over nearly the whole of Russia and Scandinavia. Rising during day to 55° and upwards in many parts of England and France, and reaching 58° at Loughborough; exceeding 60° at several of the Spanish and Mediterranean stations.

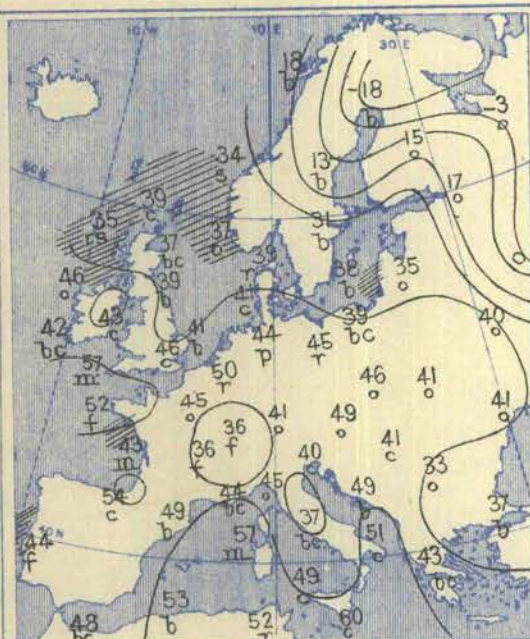
Wind moderate to fresh from the Westward or South-Westward over the greater part of our Islands, the Netherlands, Denmark, Germany and Austria, but strong from the North-Westward on our own extreme north and north-west coasts. Calm or Easterly over the northern parts of Russia and Scandinavia. Light from the Eastward or North-Eastward over the Spanish Peninsula and the south-west of France; variable or Northerly in Italy. Subsequently increasing to a gale from the Westward in the Shetlands and also at some of the Scandinavian and Baltic stations.

Barometer highest, 30.4 ins. and upwards in an anticyclone covering the whole of central and southern Europe and extending northwards over the south of England. Lowest, 29.2 ins. and less in a depression off the north-west of Norway; 29.3 ins. and less in another disturbance near the Shetlands; 29.4 ins. and less in a shallow area over northern Russia; 30.1 ins. and less in a depression to the southward of Sicily. Disturbance near Shetlands afterwards moving north-eastwards; other depressions remaining almost stationary.

Monday, 19th December.

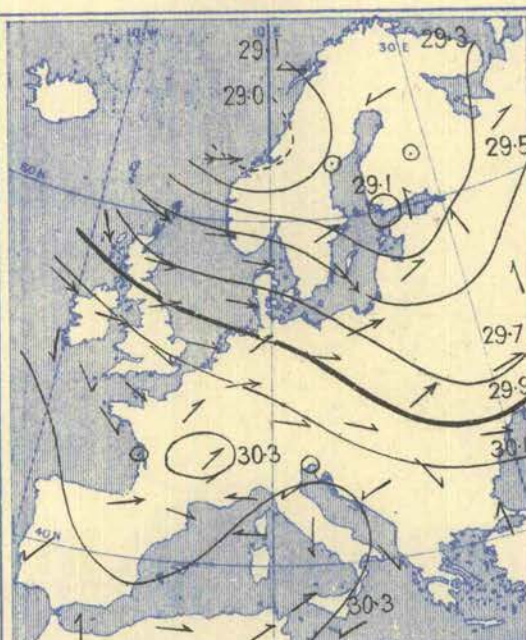
Temperature and Weather.

8 a.m.

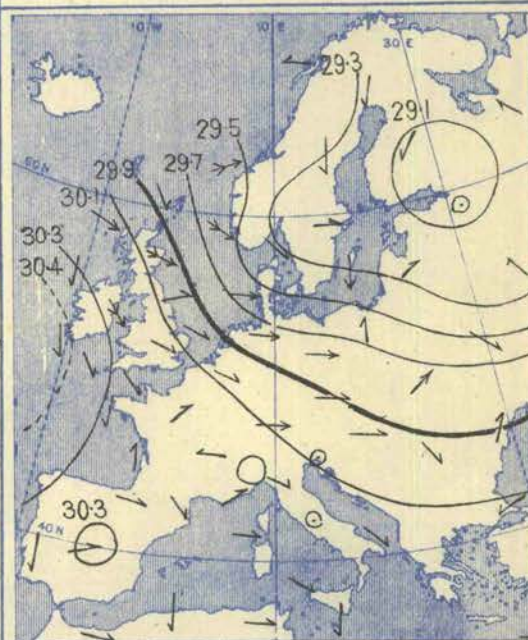


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands, but showery in the west and north-west of Scotland, with hail and sleet at Stornoway. Fine at many of the Scandinavian stations, dull over France and the central and eastern parts of the Continent generally, with fog over central France; rain in several parts of that country, Germany and Denmark, and snow at Hangö. Fine over Italy and the Spanish Peninsula. Snow showers falling later in the north of Scotland, and at many of our own western and southern stations, as well as in neighbouring parts of the Continent.

Temperature fallen over western and northern Europe generally, but risen in Austria and central and southern Russia. Morning readings highest, (1) 60° at Malta, and 57° at Cagliari; (2) 54° at Biarritz, 53° at Jersey, and 52° at Brest and Lorient. Lowest, -18° Fahr. at Haparanda, -7° at Uleaborg, -3° at Archangel, and 0° zero at Moscow; lowest in our Islands, 34° at Wick and Parsonstown. Rising during day to 45° and upwards at most of the English and Irish stations, exceeding 55° over southern Europe generally, and reaching 66° at Palermo. Frost occurring in many parts of our Islands at night.

Wind Westerly or North-Westerly over north-western Europe generally; strong in force on our own north and north-west coasts and blowing a gale at some of the Scandinavian stations. Moderate from the Westward or South-Westward over Germany, Austria and the south of Russia; Southerly over the northern parts of Russia; variable or Easterly in the north of Scandinavia. Light from between North and East over Italy and the Spanish Peninsula. Subsequently increasing to a gale on some of the more exposed parts of our north and north-west coasts.

Barometer highest, 30.3 ins. and upwards over Italy and the southern parts of the Spanish Peninsula; 30.2 ins. and upwards in an anticyclone covering the whole of southern Europe, and extending northwards over the south of Ireland. Lowest, 29.0 ins. and less in a depression with its centre off the west of Norway; 29.0 ins. and less in a small secondary near Hangö. Depression subsequently moving south-eastwards, and barometer rising in all parts of our Islands—quickly in the north.

Tuesday, 20th December.

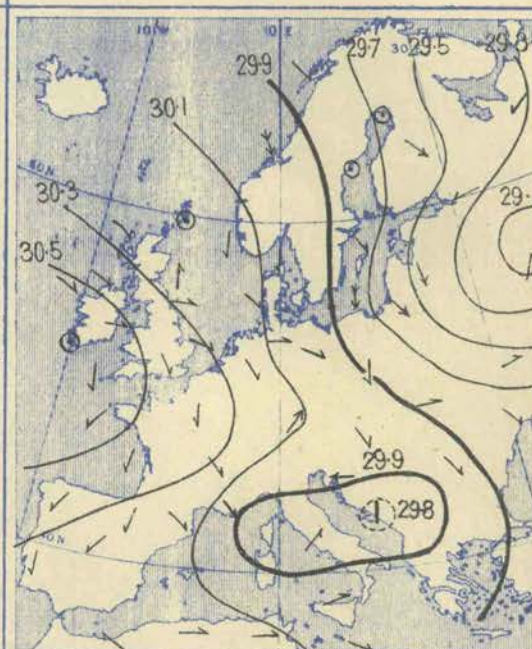
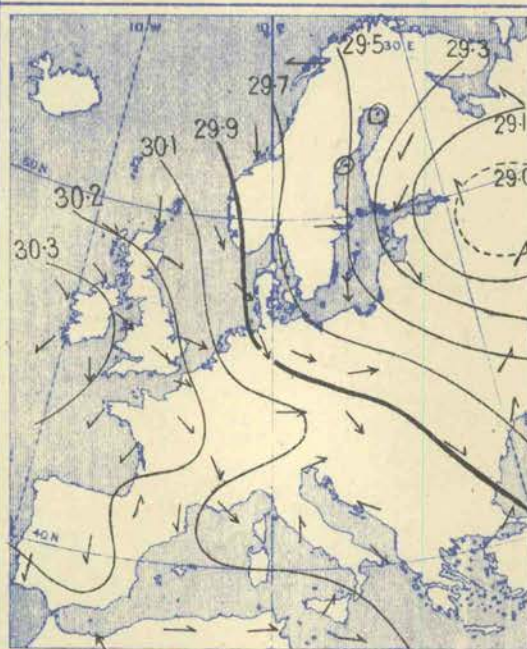
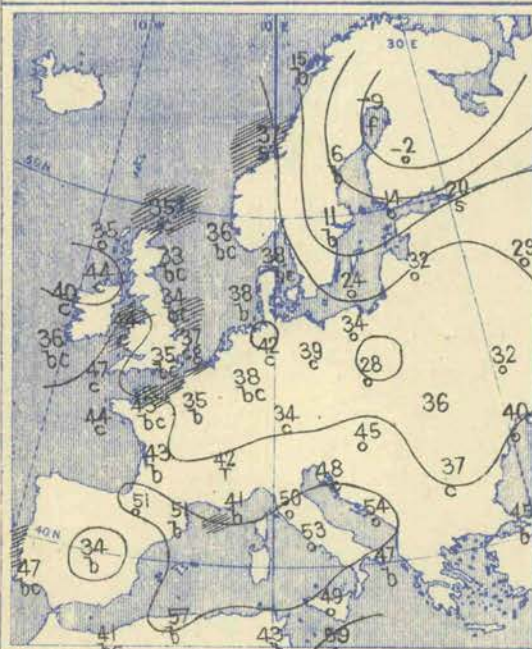
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine over western Europe generally, but cloudy on our own extreme north and north-west coasts. Cloudy or dull over the eastern and central countries generally, and also over Italy and central France; rain falling at Münster, Lyons and Lemberg, and snow in many parts of northern Russia as well as at Christiansund. Rain falling later in all the more northern and eastern parts of our Islands, as well as at many of the Continental stations, and snow at Munich.

Temperature fallen over north-western, northern and central Europe, but risen quickly in Italy. Morning readings highest, 59° at Malta, 58° at Leghorn and 57° at Algiers; above 50° at most of the Mediterranean and Adriatic stations. Lowest, -9° Fahr. at Haparanda, -7° at Uleaborg, -2° at Kuopio, and 0° zero at Archangel; considerably below the freezing point over Scandinavia and northern Russia generally, and slightly below it in the central parts of England and Ireland. Not exceeding 40° all day in the eastern and central parts of Great Britain, but exceeding 45° on our west and south-west coasts, and exceeding 55° in the south of France. Reaching 60° or more in Spain and Italy.

Wind Northerly or North-Westerly over the whole of western and northern Europe. Light to fresh in force in our Islands, but strong on the eastern shores of the North Sea and blowing a gale at Wisby. Moderate to fresh from the Westward over Germany and Austria; light from the South-Westward over southern Russia; Easterly or North-Easterly over northern Russia; calm in the Gulf of Bothnia. Southerly or South-Westerly at most of the Italian stations. No important change occurring later.

Barometer highest, 30.5 ins. and upwards over Ireland; 30.2 ins. and upwards in an anticyclone embracing nearly the whole of our Islands, France, Spain, and Algeria. Lowest, 29.0 ins. and less in a large depression over central Russia; 30.0 ins. and less in a small disturbance over the Gulf of Genoa. Small and very shallow depression appearing later over Scotland, and barometer falling slightly on our northern parts.

Wednesday, 21st December.

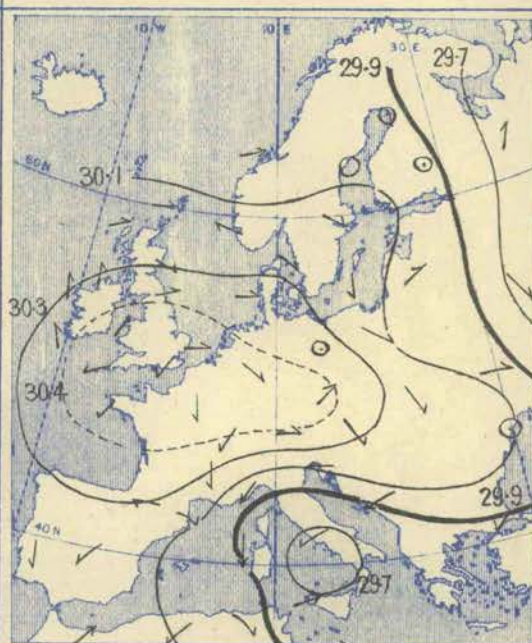
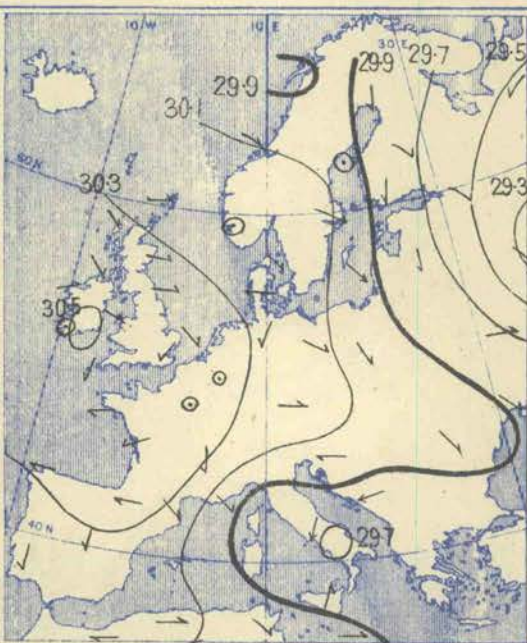
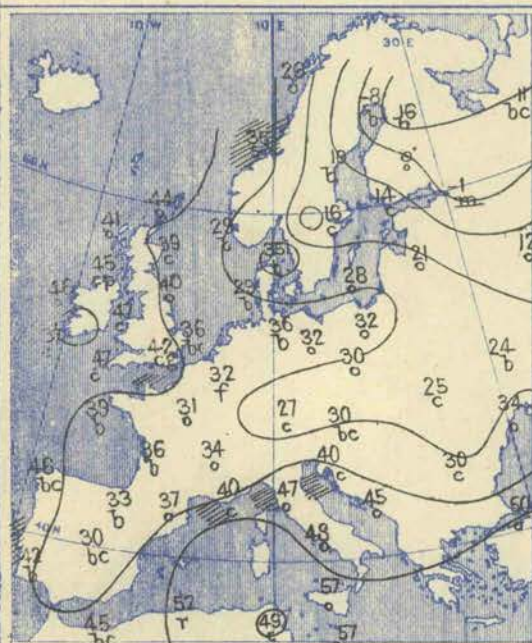
Temperature and Weather.

8 a.m.

Barometer and Wind.

8 a.m.

6 p.m.



Weather in morning fine in isolated places, but cloudy or dull over the United Kingdom as a whole, with showers at Malin Head. Fine in the western parts of the Continent generally, but dull in most of the eastern, central and southern countries, with snow at Prague and also at Christiansund. Fog setting in later over the eastern and central parts of England; a little rain falling in the north of Scotland and also at Jersey, and larger quantities over central and southern Italy.

Temperature risen in our Islands and also in Sweden, but fallen elsewhere. Morning readings highest, 58° at La Calle, 57° at Palermo and Malta, and 54° at Oran; above 50° over the central and southern parts of the Mediterranean, and above 45° on the west coasts of Great Britain. Lowest, -16° Fahr. at Uleaborg, -11° at Archangel, and -8° at Haparanda; below the freezing point over northern, eastern and central Europe generally. Rising during day to 45° and upwards in all but the eastern and south-eastern parts of Great Britain, and also in the west and south of France; exceeding 60° in Spain and southern Italy. Sharp frost occurring at night in the east and south-east of England.

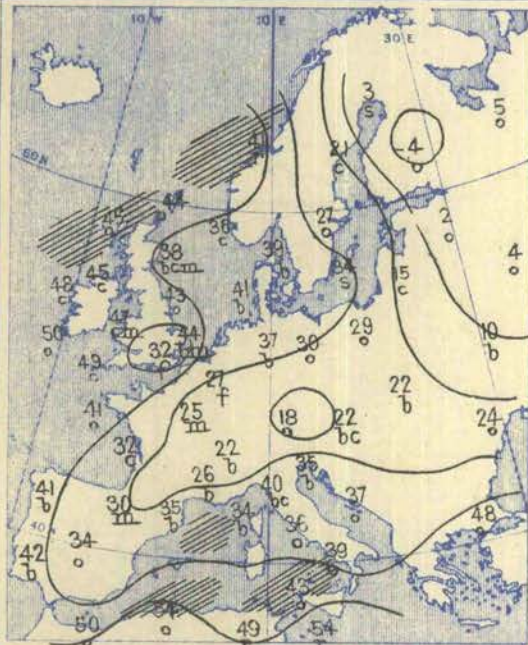
Wind light from the West or North-West over the greater part of the United Kingdom, but Northerly at some of our extreme southern stations, and Easterly or North-Easterly over the west of France and the Spanish Peninsula; Northerly over Scandinavia, Denmark, northern Russia, and the Baltic, with a gale at Wisby and Neufahrwasser; Westerly or North-Westerly over Germany, Austria, and the south of Russia. Light from the South-Westward or Westward over Sicily and Malta, strong from the Eastward or North-Eastward over northern Italy, fresh from the North-Westward in the extreme south of France. Subsequently backing to the Southward in Ireland and the west of Scotland.

Barometer highest, 30.5 ins. and upwards over the southern parts of Ireland; 30.2 ins. and upwards in an anticyclone embracing the whole of western Europe. Lowest, 29.2 ins. and less in a well-marked depression over central Russia, 29.7 ins. and less in another disturbance over central and southern Italy. Anticyclone moving eastwards later, and barometer beginning to fall along our own extreme western coasts; Russian depression moving away to the eastward.

Thursday, 22nd December.

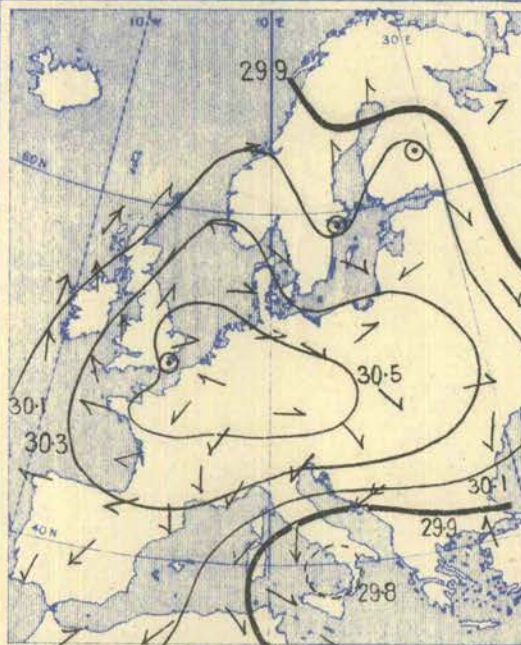
Temperature and Weather.

8 a.m.

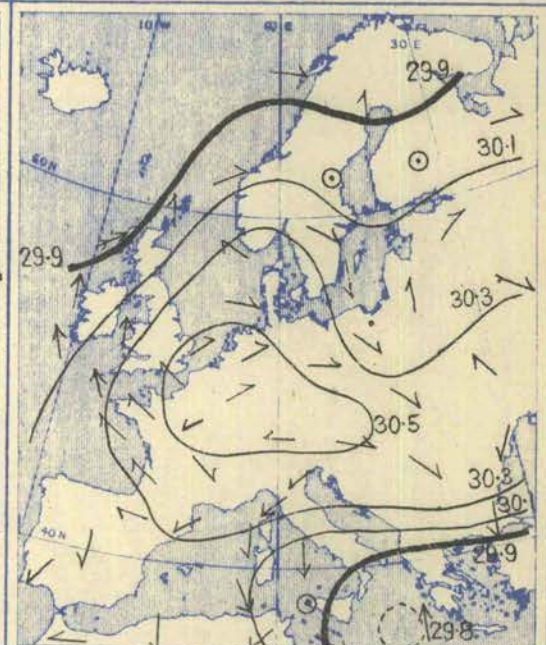


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over western Europe as a whole, but foggy over central England, as well as at Brussels and Wiesbaden, and dull in Ireland and the west of Scotland. Fine in Austria, but dull in Russia, Germany and Italy, and rainy in Malta; cloudy also at most of the Scandinavian stations, with rain at Christiansund and snow at Bodö. A little rain falling later in Ireland, and a larger quantity in the Hebrides; rain occurring also in several parts of Germany, and snow in Finland.

Temperature changed irregularly in our islands, risen over northern Europe, fallen in most of the southern countries. Morning readings highest, (1) 54° at Malta and Algiers, and 50° at Oran; (2) 50° at Valencia (Ireland) and Roches Point, and 49° at Scilly. Lowest -4° Fahr. at Kuopio, -8° at Uleaborg, and +2° at St. Petersburg; considerably below the freezing point in most parts of northern, eastern and central Europe, and slightly below it at some of the English inland stations. Remaining below 40° all day in the east of England, but rising to between 45° and 50° on all our own west, north and south coasts; exceeding 50° over Spain and the southern parts of France and Italy. Sharp frost occurring over England at night.

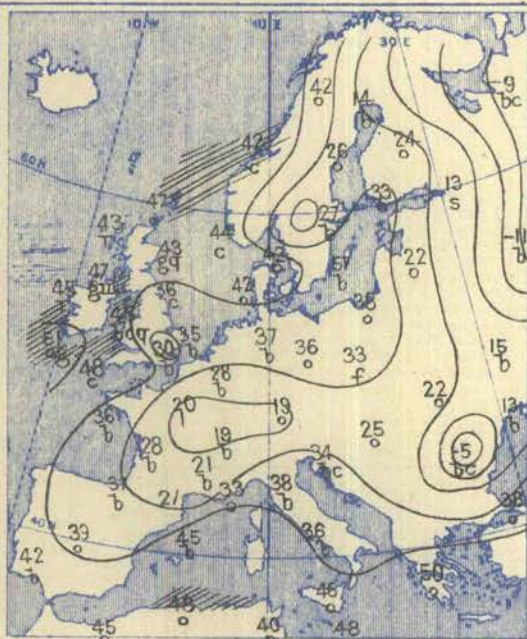
Wind southerly over the greater part of our islands; light or moderate in force generally, but strong on our extreme western coasts. Light from the westward or north-westward over Denmark, Germany and Austria; variable or northerly in Russia. Moderate from the eastward in the west of France; northerly or north-easterly over southern Europe generally, and strong in force over the northern parts of Italy and the Adriatic, with a gale at Lesina. Subsequently increasing to a gale from the south-westward on our own extreme north-west coasts; no important change occurring elsewhere.

Barometer highest, 30.5 ins. and upwards over Germany, the Netherlands, the north-east of France, and the south-east of England; 30.3 ins. and upwards in an anticyclone embracing the whole of central Europe and extending over England and the North Sea. Lowest, 29.8 ins. and less in a depression over southern Italy; 29.9 ins. and less over northern Russia; 30.0 ins. and less in an area lying off our own extreme north-west coasts. Italian depression moving away later to the south-eastward, no important change occurring elsewhere.

Friday, 23rd December.

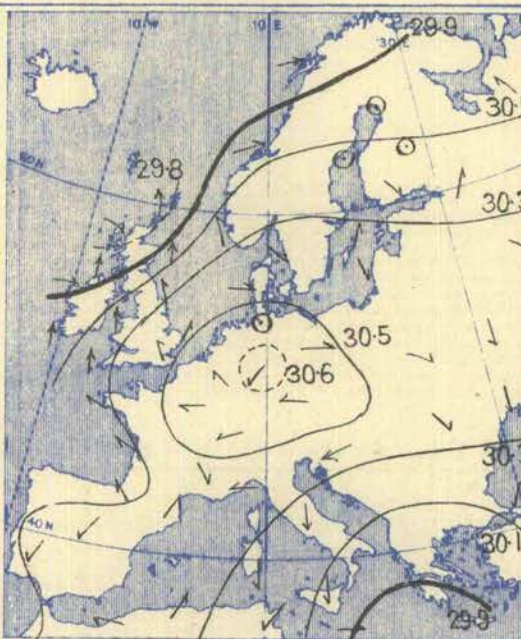
Temperature and Weather.

8 a.m.

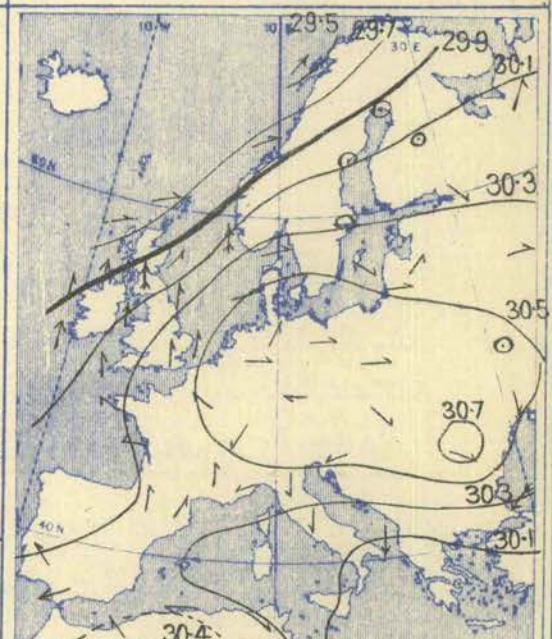


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over England, and a considerable portion of the Continent, but dull over Norway, Denmark, Finland, Germany and Austria, with snow at St. Petersburg and Vienna. Dull in Ireland and Scotland, with rain at Stornoway and Belmullet. Rain falling later over the whole of Ireland, and the west and north of Scotland—heavily at Belmullet.

Temperature fallen over England and France, as well as over central Russia, but risen elsewhere. Morning readings highest, (1) 51° at Valencia (Ireland), 50° at Roches Point, and 49° at Nairn; (2), 50° at Patras, and 48° at Malta and Algiers. Lowest, -11° Fahr. at Moscow, -9° at Archangel, and -1° at Kharkov; considerably below the freezing point over the whole of Sweden and Russia, as well as over western Germany and central France, and slightly below it over the inland parts of England. Not exceeding 40° all day over central France and the north and east of England, but reaching 50° or more on several parts of our western coasts. Exceeding 55° over the Spanish Peninsula, and the extreme south of France, and reaching 61° at San Fernando.

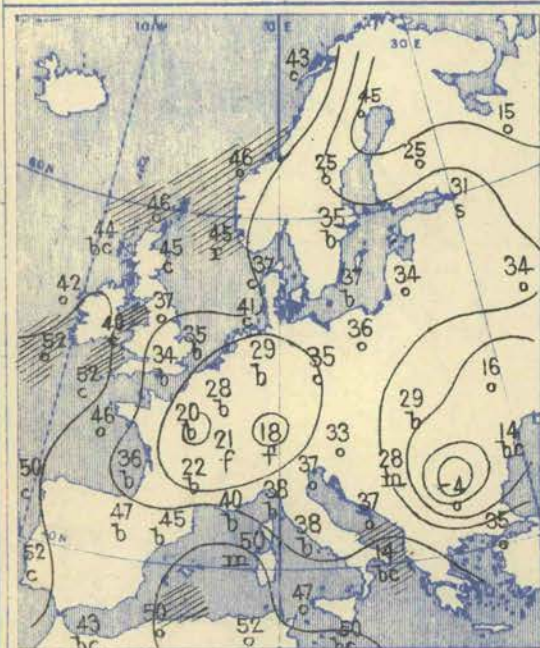
Wind light to moderate from the Eastward over France, and from the South-Eastward over England, but strong from the Southward on nearly all parts of our western and northern coasts; South-Westerly in the west of Norway. Light from the Westward or North-Westward over Denmark, Germany, and Austria; variable in Russia, light to fresh from the Northward or North-Eastward over the greater part of southern Europe. No important change occurring during day, excepting on the Norwegian coasts, where wind freshened considerably from South and South-West.

Barometer highest, 30.6 ins. and upwards over western Germany, 30.2 ins. and upwards in an anticyclone embracing the greater part of the Continent, and extending over the whole of England. Lowest, 29.8 ins. and less in a depression lying off the north of Scotland, 29.9 ins. and less in a large area lying to the southward of Greece. Scotch depression subsequently moving north-eastwards, and barometer rising a little on our own extreme north-west coasts.

Saturday, 24th December.

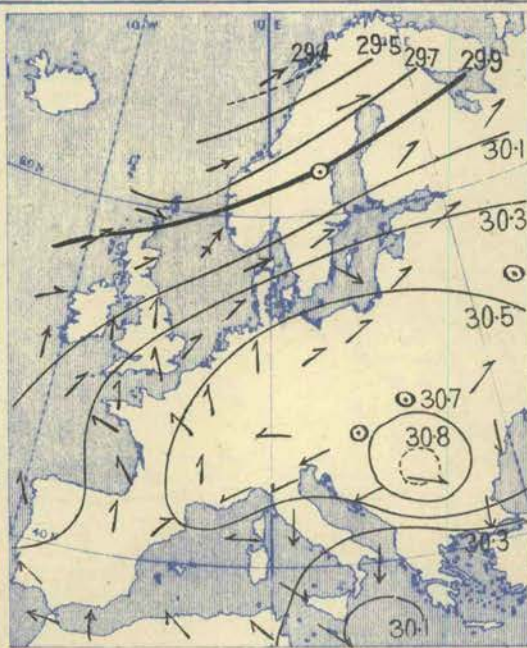
Temperature and Weather.

8 a.m.

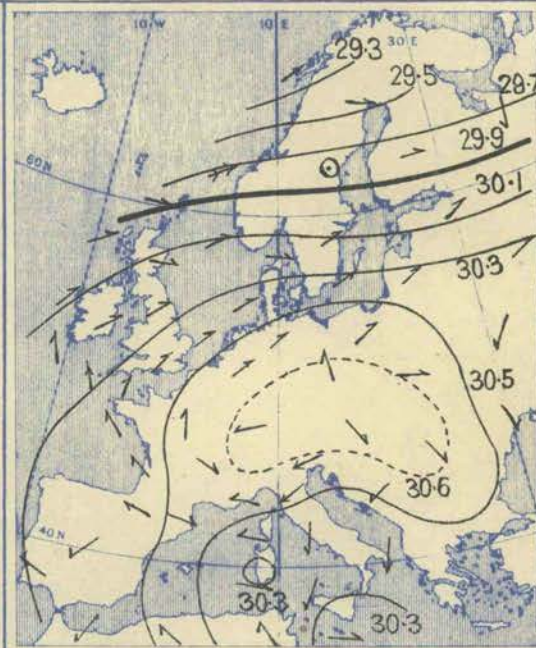


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the north of Scotland, as well as in the south and east of England and over France, Spain and Italy. Cloudy or dull elsewhere, with passing showers at Roche's Point; steady rain at Skudesnaes and snow at St. Petersburg. Rain falling later in the west and north of our Islands generally, and also in the west of Norway—amounts slight in most places, but large (1.4 ins.) at Stornoway.

Temperature risen over our Islands, the west of France and the Spanish Peninsula, as well as over northern Russia and the south of Scandinavia. Morning readings highest, (1) 53° at San Fernando and 52° at Lisbon and La Calle; (2) 52° at Valencia (Ireland), Roche's Point, Pembroke, and Scilly, and 51° at Parsonstown; above 45° in the western parts of our Islands generally. Lowest, -4° Fahr. at Hermanstadt, +1° at Kharkov, 10° at Nicolaieff, and 14° at Odessa; below 20° in south Germany and ranging between 20° and 25° over the central parts of France. Daily maxima below 40° over central France, and below 45° over the eastern half of England, but thermometer reaching 50° or more on several parts of our western coasts; touching 57° at Biarritz and 59° at Lisbon.

Wind Southerly over the greater part of our Islands; light or moderate in force generally, but strong in the Irish Sea. South-Westerly or Westerly in the north of Scotland and also over the northern parts of the Continent generally, and strong to a gale in force on the Norwegian coasts. Light from the South-Eastward over Belgium, France and Spain; moderate to fresh from East and North over Italy and the Adriatic. No important change occurring during day.

Barometer highest, 30.81 ins. at Hermanstadt; 30.6 ins. and upwards over nearly the whole of Austria and Germany; 30.3 ins. and upwards in an anticyclone covering all but the northern parts of the Continent and extending over the south-eastern parts of England. Lowest, 29.4 ins. and less in a depression with its centre off the northern part of the Norwegian coasts; 30.1 ins. and less in a shallow area lying to the southward of Italy. Barometer rising in our Islands during day; general distribution of pressure remaining unchanged.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: $\Rightarrow$ = a heavy gale; $\Rightarrow$ = a gale; $\Rightarrow$ = a fresh to strong breeze; $\Rightarrow$ = a light to moderate breeze; and $\odot$ = a calm. In the left-hand Chart the weather is indicated as follows: — = blue sky; — = detached clouds; — = overcast; — = misty (hazy); — = foggy; — = squally; — = rain; — = hail; — = snow; — = lightning; and — = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the beginning of the week the type of weather was very similar to that reported earlier in the month. Over the southern countries the conditions were influenced by a large anticyclone which covered the whole of southern, and a considerable portion of central Europe, while in the northern and north-western countries they were affected by large depressions moving eastwards from the Atlantic across Scandinavia and northern Russia. On the 18th and 19th the wind in the rear of one of these disturbances blew with the force of a gale from West and North-West over nearly the whole of Scotland, and from North-West or North over northern Europe. On the 20th, however, a large anticyclone spread over our Islands from the westward, and during the remainder of the week this system drifted very slowly eastwards across Europe. For a time Northerly and North-Westerly breezes were therefore prevalent in most countries, but in our Islands the wind afterwards backed to the South-Westward or Southward; and on the 22nd and 23rd, when depressions skirted our extreme west and north-west coasts, a moderate to fresh gale was experienced in those regions. Over the Continent the presence of the anticyclone was marked by a fall of temperature to a rather low level, the cold weather spreading eventually over the eastern and southern parts of France. At the close of the week, however, a milder current seemed to be extending over our Islands from the Westward. Over Italy and the neighbouring parts of the Mediterranean the weather in the middle portion of the week was influenced by a depression which formed over the Gulf of Genoa on the 20th, and which afterwards increased in depth and moved south-eastwards directly across Italy; this occasioned heavy rain in several parts of that country, the wind in its rear blowing with considerable force from the Eastward and North-Eastward.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 302.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNES (Orkney Islands)	2.3	?	6	?	WESTBOURNE (Emsworth)	19.8*	+ 8.6	37*	+ 16
STRATHPEFFER SPA					WATERGATE (Emsworth)				
EDINBURGH	4.2	- 1.3	9	- 2	BRIGHTON	26.8	+ 15.4	50	+ 29
MORPETH	11.0	?	23	?	EASTBOURNE	22.3	+ 9.8	41	+ 18
NEWCASTLE-ON-TYNE	6.3	?	13	?	VENTNOR HOSPITAL	25.4	?	47	?
OSWALDKIRK (Yorkshire)	10.7	+ 2.7	21	+ 5	SOUTHPORT	12.6	?	25	?
HOLLESLEY BAY	25.7	?	49	?	COLWYN BAY	13.1	?	26	?
SHEFFIELD	15.1	?	30	?	TENBY	20.2*	+ 10.1	30*	+ 19
WORKSOP	8.1	+ 0.6	16	+ 2	NEWQUAY	17.6	+ 6.4	32	+ 11
THURCASTON (Leicestershire)	18.4	+ 11.6	36	+ 23	TORQUAY	20.1*	+ 8.3	37*	+ 15
PLUMSTEAD COMMON	14.7	?	27	?	GUERNSEY	15.2*	+ 4.9	27*	+ 9
MARGATE	19.4	+ 8.6	38	+ 16					

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C.; JOHN MENZIES & Co., 12, HANOVER STREET, EDINBURGH.
88 & 90, WEST NILE STREET, GLASGOW; AND HODGES, FIGGIS & Co., 104, GRAFTON STREET, DUBLIN.VOL. XV. No. 52.]
Third Series.

WEEK ENDING SATURDAY, DECEMBER 31ST, 1898.

[Price 6d.
Annual Subscription
post paid £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

DISTRICTS. (See p. 308.)		Temperature of the Air.													
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
		Highest.	Lowest.	Averages of				For the Week.				From January 2nd, 1898.			
				Daily Maxima.	Daily Minima.	Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	53	22	44.8	34.5	39.8	2 above	Day-deg. 8	Day-deg. + 1	Day-deg. 29	Day-deg. - 4	Day-deg. 2331	Day-deg. +355	Day-deg. 553	Day-deg. -287
	1. SCOTLAND, EAST	57	16	44.5	33.6	39.3	3 above	7	+ 1	34	- 7	2617	+255	619	-300
	2. ENGLAND, N.E.	55	22	45.8	36.3	41.2	3 above	11	+ 4	24	-12	2965	+388	433*	-307
	3. ENGLAND, EAST	56	24	47.2	35.3	41.5	4 above	15	+ 7	29	-12	3315	+338	519	-320
	4. MIDLAND COUNTIES	56	23	47.0	35.9	41.6	4 above	14	+ 5	26	-15	3233	+282	522	-339
	5. ENGLAND SOUTH	56	25	49.0	38.4	43.9	5 above	28	+15	10	-22	3710	+430	282*	-339
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	55	23	47.5	38.3	43.1	4 above	23	+12	10	-17	2891	+366	318	-314
	7. ENGLAND, N.W.	57	26	47.8	39.1	43.6	4 above	23	+13	8	-20	3207	+441	268	-335
	8. ENGLAND, S.W.	56	27	51.1	40.6	46.0	5 above	34	+17	4	-17	3584*	+465	236	-220
	9. IRELAND, NORTH	55	27	47.5	38.5	43.2	3 above	23	+11	10	-15	3044	+386	280	-266
	10. IRELAND, SOUTH	57	29	49.9	40.8	45.6	4 above	30	+10	3	-17	3576	+510	204	-213
	—CHANNEL ISLANDS.	56	36	51.3	43.4	47.5	3 above	39	+11	0	- 7	4314	+662	55	-116

DISTRICTS. (See p. 308.)		Rainfall.								Bright Sunshine.							
		For the Week.			From January 2nd, 1898.					For the Week.				From January 2nd, 1898.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10ths of in. 23	9 more	262	+17	Ins. 66.7	+16.2	6	+ 1	14	+ 4	1230	+169	28	+ 4	
	1. SCOTLAND, EAST	5	10	3 more	204	+ 5	30.4	- 1.6	4	- 3	9	- 6	1314	+ 39	30	+ 1	
	2. ENGLAND, N.E.	5	10	4 more	176	-12	22.4	- 4.2	6	—	13	- 2	1237	- 18	29	0	
	3. ENGLAND, EAST	5	8	3 more	156	-28	20.3	- 6.0	14	+ 4	27	+ 8	1556	- 2	35	0	
	4. MIDLAND COUNTIES	6	12	7 more	162	-18	21.8	- 6.7	9	+ 1	18	+ 3	1387	+ 36	32	+ 1	
	5. ENGLAND, SOUTH	5	13	7 more	150	-26	21.9	- 7.6	10	- 1	19	- 2	1535	- 17	36	0	
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	22	9 more	228	+19	46.7	- 3.3	7	0	15	0	1320	+ 2	30	0	
	7. ENGLAND, N.W.	7	17	9 more	202	+ 6	34.4	- 1.1	7	+ 1	13	+ 1	1432	+113	33	+ 3	
	8. ENGLAND, S.W.	7	23	13 more	188	-12	35.7	- 4.5	13	+ 2	24	+ 3	1698	+ 49	39	+ 2	
	9. IRELAND, NORTH	7	14	5 more	245	+17	38.3	+ 0.2	12	+ 4	24	+ 8	1296	+ 29	29	0	
	10. IRELAND, SOUTH	6	17	8 more	202	- 4	39.4	+ 0.3	12	+ 1	23	+ 2	1486	+ 43	34	+ 1	
	— CHANNEL ISLANDS.	6	20	11 more	208	- 5	28.3	- 5.8	14	+ 1	24	+ 2	1968	+129	46	+ 3	

Bright Sunshine.—Owing to the absence of mean values for some of the stations the "differences from the mean" for Scotland N., England N.E. the Midland Counties, England S., Scotland W., England N.W. and the Channel Islands, are likely occasionally to appear defective.

General Remarks.

Weather during this period was extremely changeable. Much rain fell over the Kingdom generally—especially in the west and north—but several fine bright intervals were experienced over Ireland and the greater part of England.

Temperature continued above the mean, the excess varying from 2° in Scotland N. to 4° or 5° in most other districts. The highest of the maxima were recorded during the earlier days of the week, and ranged from 57° in Scotland E., England N.W. and Ireland S., to 53° in Scotland N. The lowest of the minima, which were registered on the 31st, ranged from 16° in Scotland E. (at Braemar), 22° in Scotland N. and England N.E. and 23° in Scotland W. and the Midland Counties, to 29° in Ireland S., and to 36° in the Channel Islands.

Rainfall exceeded the mean in all districts, the excess being considerable generally, and especially so in the west.

Bright Sunshine was rather in excess of the mean in most districts, the percentage of the possible duration ranging from 27 in England E., and 23 or 24 in Ireland and the S.W. of England to 13 in England N.W. and N.E. and to 9 in Scotland E.

Barometer and Wind.—During the whole of this period a series of large and deep disturbances reached our Islands and their neighbourhood from the Atlantic. The centres of the systems mostly skirted our western and north-western coasts, but that of the 29th travelled eastwards directly across Ireland and England. Very strong winds or gales from between South and West were, therefore, of frequent occurrence in all parts of the Kingdom, the gale of Wednesday being of exceptional violence in the north-west and north of Ireland.

* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 307 has been calculated.

DISTRICTS.	NAMES OF STATIONS.	Temperature. In Degrees Fahrenheit.									Rainfall			Bright Sunshine			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.	
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.								
0. SCOTLAND, N.	Sumburgh Head	50	30	43.4	36.4	40.0	+ 0.9	4	21	6	1.75	+ 0.81	*	*	*	*	
	Stornoway	52	27	44.3	33.9	39.3	+ 0.5	6	31	7	3.70	+ 2.46	5.6	- 0.3	13	0	
	Wick	52	24	45.4	33.9	39.9	+ 2.6	10	32	6	0.51	- 0.12	*	*	*	*	
	Lairg	53	26	43.9	34.4	29.3	+ 2.4	5	29	4	2.47	+ 0.22	*	*	*	*	
	Glencarron	53	22	45.7	32.8	39.5	+ 1.6	10	37	7	1.88	+ 0.78	5.7	+ 3.9	12	+ 7	
	Fort Augustus	53	27	45.9	35.4	40.9	+ 2.2	11	28	6	3.24	+ 1.11	6.4	+ 3.1	14	+ 7	
1. SCOTLAND E.	Fort William	53	27	45.9	35.4	40.9	+ 2.2	11	28	6	3.24	+ 1.11	6.4	+ 3.1	14	+ 7	
	Nairn	57	21	44.9	32.7	39.0	+ 1.8	8	36	4	0.54	+ 0.10	*	*	*	*	
	Aberdeen	54	24	44.9	34.6	40.0	+ 2.7	8	30	6	0.77	+ 0.13	7.0	- 2.7	15	- 6	
	Braemar	52	16	41.9	28.0	35.2	+ 1.0	0	48	4	1.82	+ 1.13	4.5†	- 0.5†	10†	0†	
	Ochertyre	52	22	43.9	33.1	38.7	+ 2.3	5	34	5	1.60	+ 0.60	*	*	*	*	
	Leith	55	28	47.6	37.9	42.9	+ 4.0	24	11	5	0.30	- 0.10	*	*	*	*	
2. ENGLAND, N.E.	Marchmont	52	25	44.0	35.3	39.8	+ 3.6	6	26	6	0.65	+ 0.01	3.3	- 4.5	7	- 9	
	Alnwick Castle	54	22	?	36.7	?	?	?	?	5	0.78	+ 0.18	*	*	*	*	
	Durham	53	23	45.9	34.3	40.3	+ 3.6	11	31	6	0.70	+ 0.13	11.3	+ 1.2	23	+ 3	
	Shields	55	28	46.6	37.1	42.0	+ 3.6	13	14	4	0.54	+ 0.06	*	*	*	*	
	Scarborough	52	28	45.3	34.8	40.3	+ 2.2	9	30	6	1.33	+ 0.77	2.8	?	6	*	
	York	55	27	46.0	36.4	41.4	+ 4.0	11	24	5	1.07	+ 0.59	4.6	- 1.7	9	- 3	
3. ENGLAND, E.	Spurn Head	54	31	45.4	38.7	42.2	+ 3.7	15	9	6	1.27	+ 0.86	*	*	*	*	
	Hillington	55	24	47.1	34.7	41.2	+ 4.5	14	31	4	0.92	+ 0.42	11.0	+ 1.2	21	+ 3	
	Yarmouth	52	27	45.9	36.4	41.3	+ 3.5	11	23	5	0.72	+ 0.20	*	*	*	*	
	Geldeston	53	26	47.2	36.1	41.9	+ 3.9	15	26	5	0.77	+ 0.32	16.8	+ 5.7	32	+ 11	
	Cambridge	56	25	48.1	34.4	41.5	+ 4.3	17	33	4	0.49	+ 0.10	13.7	+ 4.0	26	+ 8	
	Rothamsted	55	24	47.7	35.0	41.6	+ 4.2	16	30	5	1.10	+ 0.55	14.9	+ 5.0	28	+ 10	
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	53	25	45.3	33.4	39.6	+ 2.6	9	34	5	1.02	+ 0.56	*	*	*	*	
	Loughborough	56	25	47.6	37.1	42.6	+ 5.2	25	14	5	0.91	+ 0.41	*	*	*	*	
	Stamford (Duddington)	55	23	46.7	35.7	41.4	+ 4.7	13	27	5	0.82	+ 0.34	*	*	*	*	
	Cheadle	51	28	45.2	35.6	40.6	+ 4.0	9	26	6	1.62	+ 0.92	*	*	*	*	
	Shirley (near Solihull)	53	26	47.1	36.1	41.8	+ 4.8	14	26	7	1.17	?	*	*	*	*	
	Churchstoke	55	28	47.9	36.4	42.4	+ 4.6	26	16	7	2.03	+ 1.33	12.9	+ 4.0	25	+ 8	
5. ENGLAND, S.	Hereford	55	25	47.0	35.1	41.3	+ 4.1	14	29	7	1.27	+ 0.62	10.5	+ 0.5	20	+ 2	
	Cirencester	56	31	48.6	37.6	43.3	+ 5.1	23	12	5	0.83	+ 0.37	12.7	+ 2.8	24	+ 6	
	Oxford	55	27	49.1	37.0	43.3	+ 4.4	30	14	5	1.06	+ 0.58	9.1†	+ 4.2†	17†	+ 8†	
	London	52	30	46.6	38.0	42.5	+ 3.3	20	11	4	?	?	*	*	*	*	
	North Foreland	56	25	48.6	35.7	42.4	+ 3.4	29	18	4	1.26	?	*	*	*	*	
	Cranley	53	27	48.9	40.0	44.6	+ 4.8	27	6	4	0.91	+ 0.31	*	*	*	*	
6. SCOTLAND, W.	Dungeness	52	29	49.1	38.0	43.8	+ 3.8	29	11	4	1.44	+ 0.80	10.2	- 3.0	19	- 5	
	Hastings (St. Leonards)	56	29	50.0	38.5	44.5	+ 4.7	32	10	5	1.93	+ 1.21	10.8	- 0.5	20	- 1	
	Southampton	55	31	50.7	41.3	46.2	+ 5.3	32	2	5	1.57	+ 0.92	*	*	*	*	
	Hurst Castle	54	33	49.1	38.3	43.9	+ 7.4	29	10	7	1.07	+ 0.39	*	*	*	*	
	Shaftesbury	55	27	49.1	36.6	43.1	+ 3.0	30	15	7	2.72	+ 0.70	*	*	*	*	
	Laudale (Loch Sunart)	53	30	46.0	37.6	42.0	+ 3.7	11	12	6	1.40	+ 0.50	2.0	- 2.2	4	- 5	
7. ENGLAND, N.W.	Glasgow	51	31	47.0	40.3	43.8	+ 3.7	20	5	6	0.59	- 0.23	*	*	*	*	
	Ardrossan	53	23	46.5	35.2	41.1	+ 3.8	13	29	7	3.36	+ 1.88	*	*	*	*	
	Glenlee	53	30	48.7	41.7	45.3	+ 4.4	24	1	7	2.75	+ 1.70	12.8	+ 3.0	25	+ 7	
	Douglas (Isle of Man)	52	27	44.6	36.8	40.9	+ 3.3	7	21	7	2.53	+ 1.50	4.2	- 2.1	8	- 4	
	Stonyhurst	53	28	46.9	38.3	42.8	+ 4.2	21	10	7	1.93	+ 1.23	6.2	+ 0.2	12	0	
	Blackpool	53	26	46.3	36.1	41.4	+ 3.9	12	25	6	2.11	+ 1.32	4.3	?	8	?	
8. ENGLAND, S.W.	Manchester (Prestwich)	54	31	47.7	38.6	43.3	+ 3.7	23	10	6	1.01	+ 0.46	*	*	*	*	
	Liverpool Obsy. (Bidston)	57	34	51.0	40.9	46.2	+ 4.6	34	3	7	1.38	+ 0.69	9.2	+ 1.9	18	+ 5	
	Llandudno	53	40	50.0	43.9	47.1	+ 4.6	36	0	7	0.98	+ 0.15	*	*	*	*	
	Holyhead	53	27	50.0	35.9	43.2	+ 5.0	34	17	7	3.23	+ 2.03	*	*	*	*	
	Llandoverly	54	40	52.3	44.9	48.8	+ 5.7	48	0	7	2.84	+ 1.96	13.3	+ 2.4	25	+ 5	
	Pembroke	56	32	51.4	41.0	46.4	+ 7.1	35	3	7	1.75	+ 1.03	*	*	*	*	
9. IRELAND, N.	Clifton	54	32	49.4	38.6	44.2	+ 4.3	30	10	7	2.94	+ 1.74	*	*	*	*	
	Arlington (N. Devon)	56	27	51.3	38.9	45.4	+ 6.4	37	9	7	1.13	+ 0.35	7.5	- 1.5	14	- 2	
	Cullompton	56	37	51.5	41.9	46.9	+ 3.0	35	0	7	2.82	+ 1.64	18.1	+ 5.1	32	+ 9	
	Falmouth	56	36	51.1	42.3	46.9	+ 4.8	34	0	7	1.76	+ 0.90	10.7	- 1.2	19	- 2	
	Plymouth	54	36	51.6	41.0	46.5	+ 4.2	36	3	6	1.52	+ 0.74	*	*	*	*	
	Prawle Point	52	35	46.6	39.9	43.4	+ 1.8	19	6	7	1.36	?	*	*	*	*	
10. IRELAND S.	Malin Head	54	32	47.1	37.1	42.3	+ 2.6	23	14	7	1.30	+ 0.38	*	*	*	*	
	Londonderry	54	27	45.3	35.1	40.4	+ 1.0	9	28	6	1.35	+ 0.53	*	*	*	*	
	Edenfel (Omagh)	52	37	48.6	41.3	45.1	+ 2.0	25	2	7	1.96	+ 0.76	*	*	*	*	
	Belmullet	54	28	47.9	37.0	42.7	+ 3.5	26	14	7	1.48	+ 0.56	8.9	+ 0.9	17	+ 2	
	Markree Castle	55	20	48.4	37.7	43.3	+ 4.9	27	12	6	1.09	+ 0.44	15.6	+ 7.1	31	+ 15	
	Armagh	54	34	48.9	41.7	45.4	+ 4.8	25	1	7	1.09	+ 0.44	*	*	*	*	
CHANNEL ISLANDS	Donaghadee	57	33	50.6	41.0	46.0	+ 4.9	32	3	6	0.54	+ 0.01	18.5	+ 6.5	36	+ 13	
	Dublin	56	29	48.7	38.0	43.6	+ 4.2	28	11	7	1.09	+ 0.41	10.4	+ 0.2	20	0	
	Parsonstown	54	29	49.6	38.4	44.2	+ 3.7	31	10	4	1.06	+ 0.31	*	*	*	*	
	Kilkenny	54	38	50.4	43.9	47.3	+ 3.7	37	0	7	2.94	+ 1.75	*	*	*	*	
	Roche's Point	54	39	51.0	44.3	47.8	+ 2.9	41	0	7	2.83	+ 1.43	7.6	- 2.6	14	- 5	
	Valencia	55	35	49.2	39.4	44.5	+ 3.3	28	7	7	1.83	?	*	*	*	*	
CHANNEL ISLANDS	Killarney	56	41	51.3	45.0	48.3	+ 2.0	44	0	7	1.25	+ 0.40	14.8	?	26	?	
	Foynes	54	36	51.3	41.7	46.7	+ 3.6	34	1	5	2.66	+ 0.86	14.4	- 0.4	25	- 1	
CHANNEL ISLANDS	Scilly (St. Mary's)	56	41	51.3	45.0	48.3	+ 2.0	44	0	7	1.25	+ 0.40	14.8	?	26	?	
	Jersey	54	36	51.3	41.7	46.7	+ 3.6	34	1	5	2.66	+ 0.86	14.4	- 0.4	25	- 1	

Stations marked *St* are in connection with the Royal Meteorological Society, and those marked *S* with the Scottish Meteorological Society.

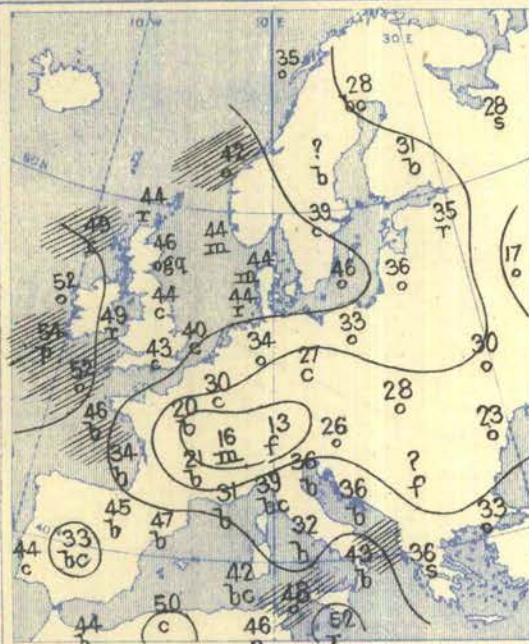
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 25th December.

Temperature and Weather.

8 a.m.

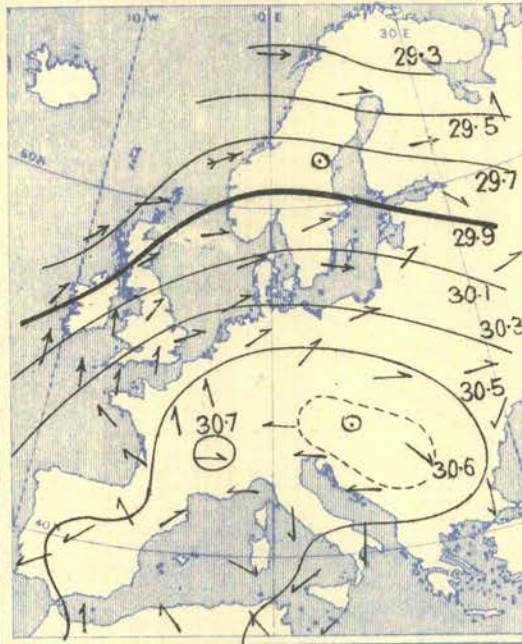


Weather in morning cloudy or dull over our Islands and the northern and eastern parts of the Continent, with rain at several of our own western stations, as well as in Denmark and at St. Petersburg; snow falling at Archangel and also at Patras; foggy in Austria. Fine over France, Spain and Italy, as well as over Finland and the Gulf of Bothnia; foggy in Austria. Rain falling later in the west and north of our Islands generally, as well as at several of the Scandinavian and Danish stations—heavily at Stornoway and Christiansund.

Temperature risen over our Islands and the greater part of northern Europe, fallen or changed irregularly elsewhere. Morning readings highest, (1) 54° at Valencia (Ireland) and 53° at Parsonstown and Roche's Point; (2) 52° at Malta and 50° at Algiers. Lowest, -4° Fahr. at Kharkov, +9° at Nicolaieff, 13° at Munich, and 16° at Belfort; below the freezing point over eastern and central Europe generally. Rising during day to between 50° and 55° in many parts of the United Kingdom and reaching 57° at Nairn; exceeding 50° also over the west and south of France, the Spanish Peninsula and southern Italy, the highest reading of all being 59° at Barcelona.

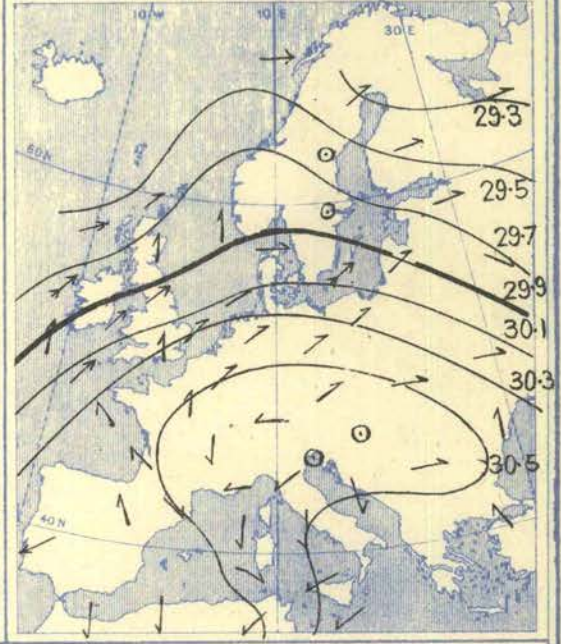
Barometer and Wind.

8 a.m.



Wind Southerly or South-Westerly in our Islands, and strong in force on many parts of our western coasts. South-Westerly also in Denmark and Germany; Westerly over Scandinavia and northern Russia, with a gale at Christiansund and Uleaborg. Light from the South-Eastward over the greater part of France; Northerly or North-Easterly over Italy and the Spanish Peninsula; calm in Austria and the south of Russia. Subsequently increasing to a gale on some parts of our own western coasts; no important change occurring elsewhere. Barometer highest, 30.6 ins. and upwards over Austria and also over Switzerland and central France; 30.1 ins. and upwards in an anticyclone embracing all but the northern and extreme north-western parts of Europe. Lowest, 29.4 ins. and less in the extreme northern parts of Russia and Scandinavia; 29.7 ins. and less in a depression lying off the north-west of Scotland. Depression subsequently advancing slowly eastwards and barometer falling in all parts of our Islands.

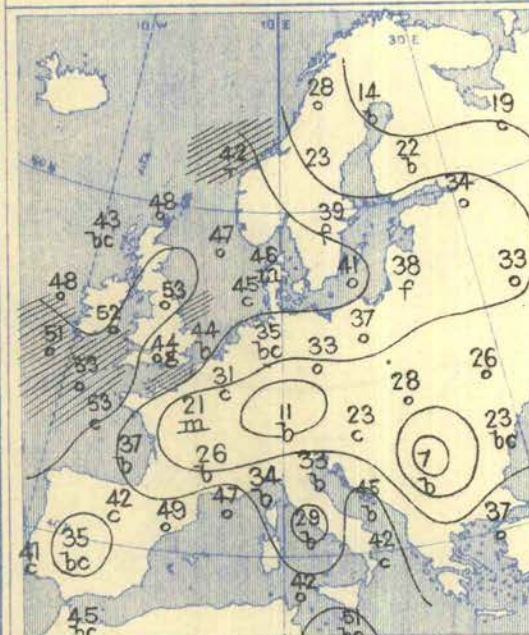
6 p.m.



Monday, 26th December.

Temperature and Weather.

8 a.m.

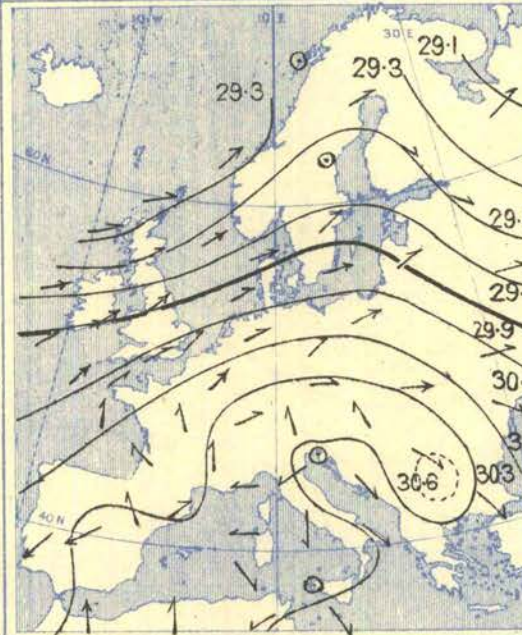


Weather in morning cloudy or dull over north-western, northern and central Europe generally, with rain at Pembroke and also at Christiansund. Fine on the east and south-east coasts of England, as well as over France and southern Europe generally; fine also over Finland and Lapland. Rain falling later in all the more western and northern parts of our Islands, as well as in many parts of Scandinavia and Denmark, the largest amount being 1.4 ins. at Roche's Point and Pembroke.

Temperature risen over England and the western parts of the Continent, but fallen elsewhere. Morning readings highest, 55° at Oxford, Hurst Castle and Brest, and 54° at Scilly, Cambridge and Lorient; above 50° in many parts of the United Kingdom and also over the central parts of the Mediterranean. Lowest, (1) 7° at Hermanstadt, 11° at Munich, 20° at Vienna, and 21° at Paris; (2) 12° at Uleaborg, 14° at Haparanda and 19° at Archangel. Rising during day to 55° or slightly above it at several of the English stations and also in the west and south of France and many parts of Spain and southern Italy.

Barometer and Wind.

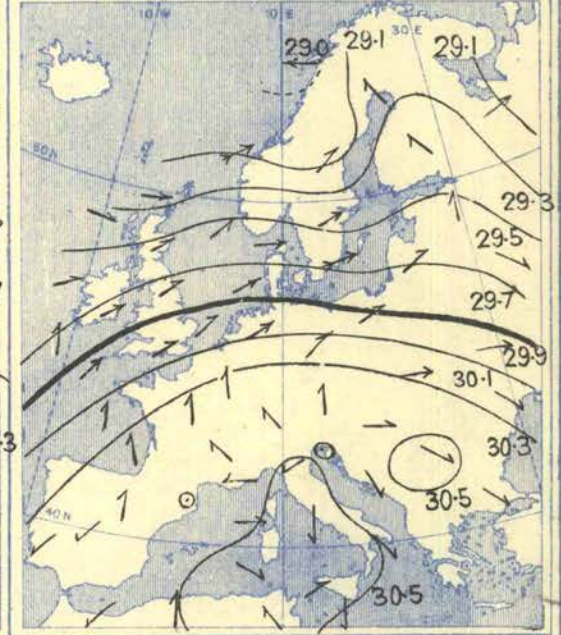
8 a.m.



Wind South-Westerly over our Islands and northern Europe generally, and strong in force in many places, with a gale at Holyhead. Light from the Southward or South-Eastward over the greater part of France and south Germany. North-Easterly over the Spanish Peninsula; Northerly or North-Westerly in Italy; calm in Austria; Westerly in Russia. Subsequently moderating in force on many of our own coasts, but increasing to a gale at some of the Scandinavian stations.

Barometer highest, 30.63 ins. at Hermanstadt, 30.61 ins. at Florence, 30.1 ins. and upwards in an anticyclone embracing the whole of central and southern Europe and extending over the south of England. Lowest, 29.2 ins. and less in a depression over northern Russia; 29.3 ins. and less in a large disturbance lying to the northward of our Islands. Latter system subsequently moving north-eastwards, but new depression beginning to approach our western coasts.

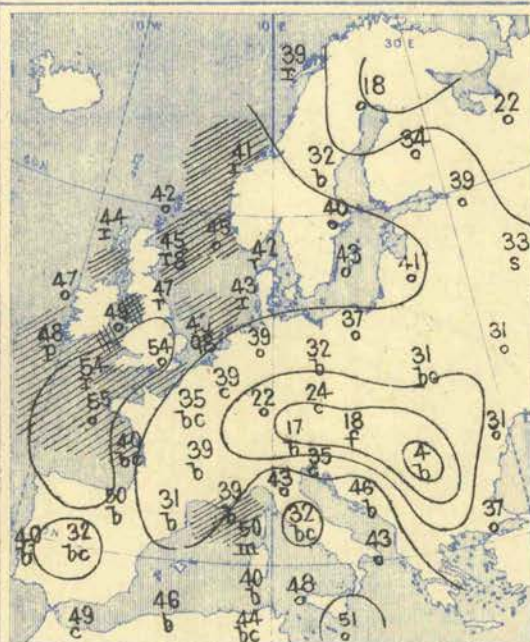
6 p.m.



Tuesday, 27th December.

Temperature and Weather.

8 a.m.

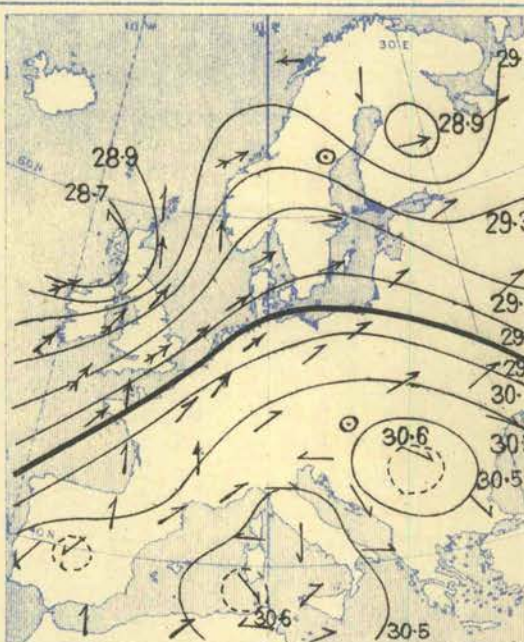


Weather in morning cloudy or dull over north-western, northern, and eastern Europe generally, with rain in many parts of Great Britain as well as in Denmark, and the west of Norway; snow falling at Moscow. Fine in most of the central and southern countries, but dull over southern Italy. Rain falling later over western and northern Europe generally—heavily in the south and extreme north-west of our Islands, and also in the north of France. Thunderstorms occurring at Odo and Riga.

Temperature fallen in the west and north of our Islands, and also in Norway and Denmark, fallen in most other localities. Morning readings highest, 55° at Oxford, Hurst Castle, and Brest, and 54° at Scilly, London, Cambridge, and Lorient; above 50° at many of the English stations. Lowest, (1) 4° at Hermanstadt, 17° at Munich, and 18° at Vienna; (2) 18° at Haparanda, and 22° at Archangel. Rising during day to between 50° and 55° in many parts of the United Kingdom, and to 56° at Cambridge, exceeding 55° also in the west and south of France; and some parts of Spain and southern Italy, and reaching 61° at Cagliari.

Barometer and Wind.

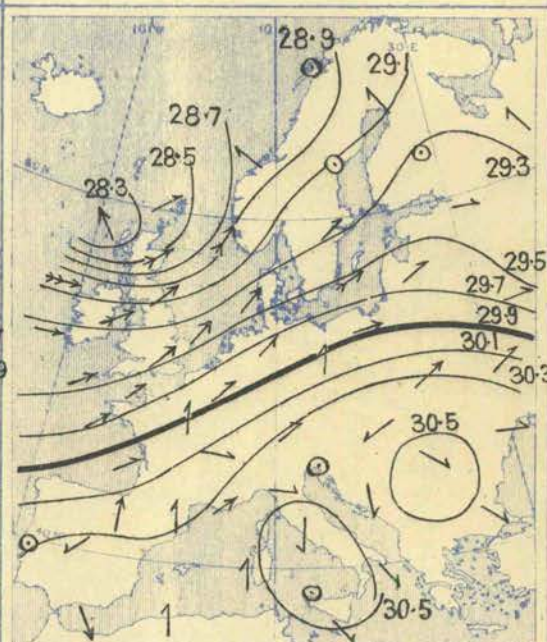
8 a.m.



Wind Southerly or South-Westerly over western and central Europe generally, and strong in force over the whole of our Islands and their immediate neighbourhood, with gales on our western coasts. Westerly over Sweden and northern Russia; variable over Austria and Italy; North-Easterly or Easterly over the Spanish Peninsula. Subsequently increasing to a gale from the South-Westward over nearly the whole of north-western Europe, and blowing with great violence over Scotland and the north of Ireland.

Barometer highest, 30.64 ins. at Hermanstadt; 30.60 ins. at Cagliari; 30.1 ins. and upwards in an anticyclone embracing the whole of central and southern Europe. Lowest, 28.7 ins. and less in a deep depression with its centre at some little distance to the westward of Scotland; 28.9 ins. and less in another disturbance over Finland. Former depression subsequently moving north-eastwards, its centre reaching the Hebrides by the evening; barometer at Stormorway falling a little below 28.2 ins.

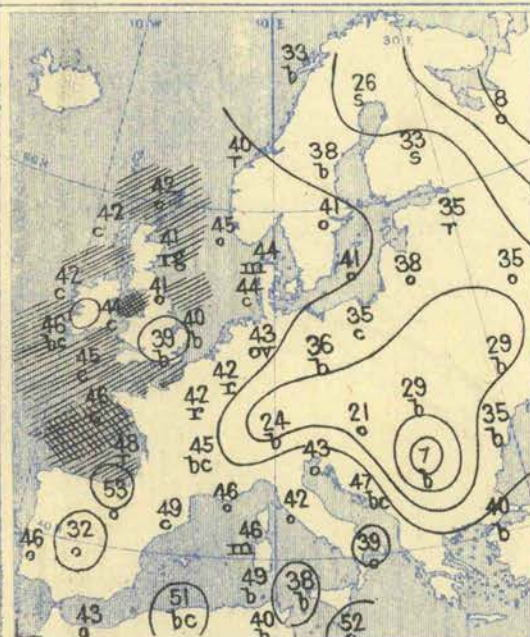
6 p.m.



Wednesday, 28th December.

Temperature and Weather.

8 a.m.

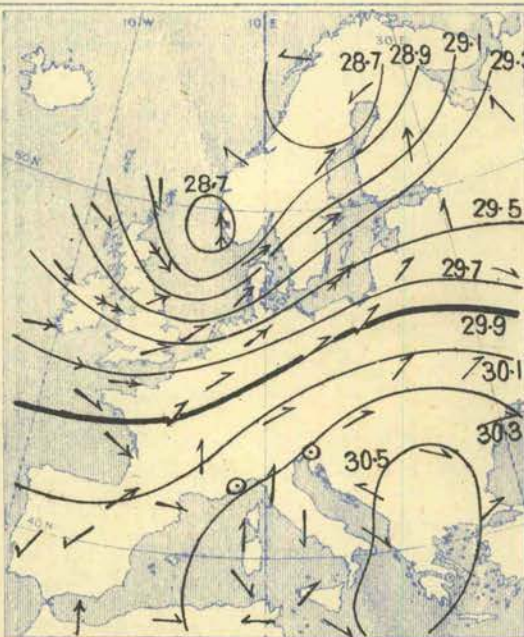


Weather in morning fine over England and also over Germany and the southern parts of France and Russia. Cloudy or dull elsewhere, with rain in several parts of Ireland, Scotland, France and Belgium, as well as at Christiansund, Helsingfors and St. Petersburg; snow falling in Lapland and Finland. Rain occurring later in nearly all parts of western Europe and snow at Archangel; lunar halos seen in the south of England and also at Belmullet.

Temperature fallen in our Islands—quickly over England, but risen in most other countries. Morning readings highest, 53° at Biarritz, 52° at Malta, 51° at Algiers, and 50° at Leghorn; above 45° in the Channel Islands and the west and north of France. Lowest, (1) 7° at Hermanstadt, 21° at Buda Pesth and 22° at Vienna; (2) 8° at Archangel and 26° at Haparanda; lowest in our Islands, 35° at Parsonstown and 38° at Oxford. Rising during day to 45° and upwards in most parts of the United Kingdom, and to between 50° and 54° on our south-west coasts; exceeding 55° in several parts of southern Europe and reaching 63° at Cape Béarn and Palermo. Frost occurring in Scotland at night and on the ground over central England.

Barometer and Wind.

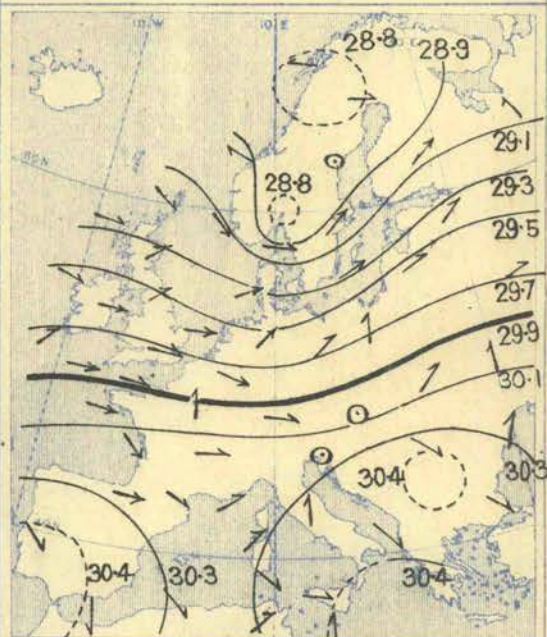
8 a.m.



Wind strong from the Westward or North-Westward in the west and north of our Islands and the west of France, with a gale in places. Moderate from the South-Westward over the Netherlands and the south-east of England, and strong from the same quarter or from South over Denmark, the Baltic, Finland and the southern parts of Scandinavia; Easterly in the north of Scandinavia. Moderate from the Southward over Germany and central France; variable over Austria and Italy; North-Easterly over the Spanish Peninsula. Subsequently moderating in our Islands and backing to the South-Westward in Ireland.

Barometer highest, 30.5 ins. and upwards over Greece, Turkey and the south-east of Austria; 30.1 ins. and upwards in an anticyclone embracing nearly the whole of southern and south-eastern Europe. Lowest, 28.7 ins. and less in a depression off the south-west of Norway and also in a large area over the north of Scandinavia. Both systems moving eastwards later, but new disturbance approaching our western coasts in evening.

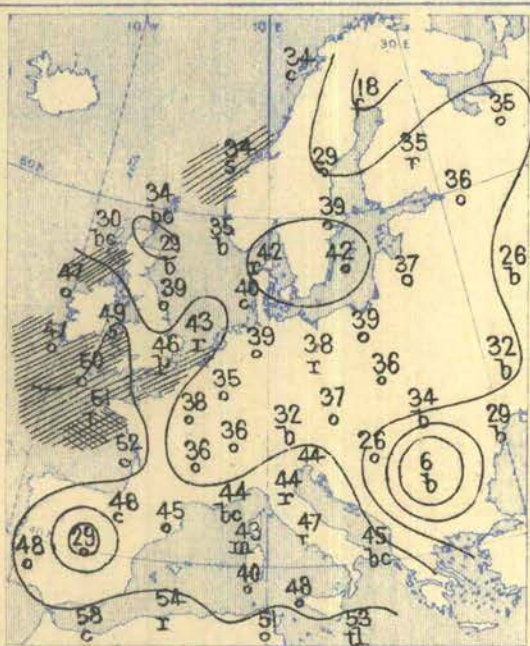
6 p.m.



Thursday, 29th December.

Temperature and Weather.

8 a.m.

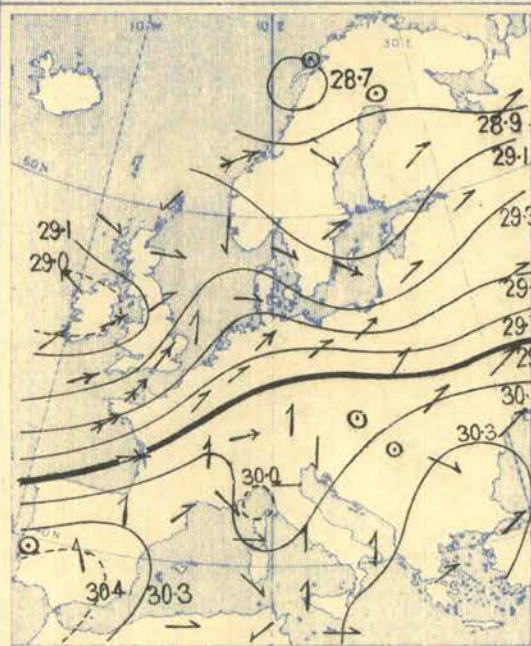


Weather in morning cloudy or dull over Europe as a whole with rain over England, the north of Ireland, and the north of France, as well as over northern Italy, and at Skagen and Berlin; snow falling at Christiansund, and thunderstorm occurring at Malta. Fine in the north of Scotland, and also at most stations in south-eastern Europe. Rain falling during day in nearly all parts of our Islands and the Continent—heavily at some of the French stations. Thunderstorm occurring at Biarritz.

Temperature fallen several degrees in Scotland and Scandinavia, risen in most other countries. Morning readings highest, (1) 55° at Oran, 54° at Algiers, and 53° at Malta; (2) 52° at Pembroke, Lorient, and Rochefort, and 51° at Prawle Point and Brest. Lowest, (1) 6° at Hermanstadt, and 25° at Vienna; (2) 18° at Haparanda, and 26° at Uleaborg; lowest in our Islands, 28° at Nairn and 29° at Aberdeen. Rising during day to 45° and upwards in all but the extreme northern parts of the United Kingdom, and to 50° or slightly above it at many of our southern stations; exceeding 55° in several parts of Spain, southern Italy, and the extreme south of France. Frost occurring at night in many parts of our Islands.

Barometer and Wind.

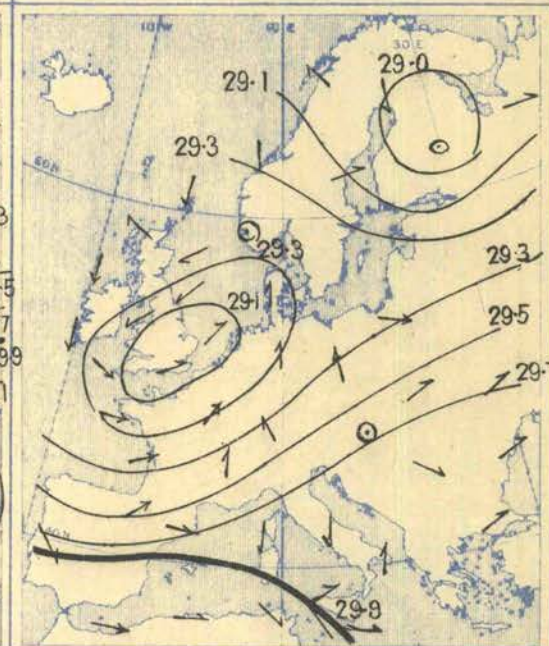
8 a.m.



Wind strong from the South-Westward over the southern parts of the United Kingdom, and the north and west of France; light to moderate from the same quarter, or from South over central France, the Netherlands, and Germany; Easterly over the northern parts of England and Ireland. North-Westerly in the north of Scotland, Westerly in Scandinavia and Denmark, with a gale at Christiansund and Wisby. Calm or variable in Austria, Southerly in Italy, variable in the south of France. Subsequently shifting to the Northward or North-Eastward over the northern parts of our Islands, and blowing strongly in places.

Barometer 30.4 ins. and upwards over the central and southern parts of Spain; 30.1 ins. and upwards in an anticyclone lying over southern Europe generally. Lowest, 28.7 ins. and less in a depression over the northern parts of Norway, 29.0 ins. and less in another disturbance with its centre off the west of Ireland. Both depressions moving eastwards later barometer rising briskly in the west and north of our Islands.

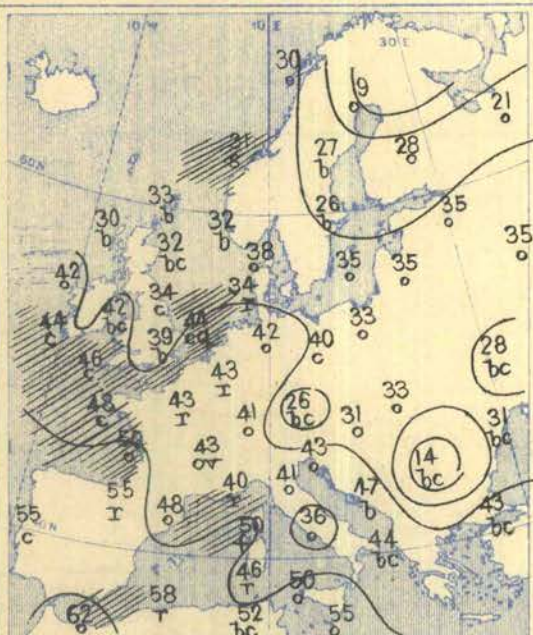
6 p.m.



Friday, 30th December.

Temperature and Weather.

8 a.m.

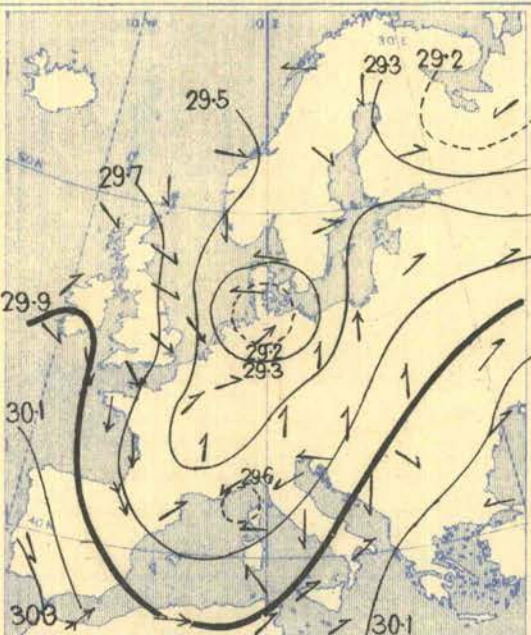


Weather in morning fine over the United Kingdom, as well as at many of the Scandinavian stations. Cloudy or dull in most other parts of Europe, with rain over France and the Netherlands, north Germany, and Denmark, sleet at Fano, and snow at Turin. Rain setting in later in the west and south-west of our Islands, but weather improving considerably in France and the Netherlands. Heavy rain falling in northern Italy, thunderstorm occurring at Algiers, and lightning seen at Perpignan.

Temperature fallen in most countries, but risen in France and Germany. Morning readings highest, 62° at Nemours and Oran, 58° at Algiers, and 55° at Biarritz, Lisbon and Malta, above 45° on some parts of our own south-west coasts. Lowest, (1) 9° at Haparanda, 11° at Uleaborg, and 21° at Archangel; (2) 14° at Hermanstadt, and 23° at Kharkov; lowest in our Islands, 29° at Wick. Daily maxima below 40° at several of our own northern and eastern stations, but thermometer exceeding 50° on our extreme south-west coasts; exceeding 55° in several parts of southern Europe, and reaching 59° at Lisbon and Brindisi, and 61° at Malta. Sharp frost occurring over Great Britain at night.

Barometer and Wind.

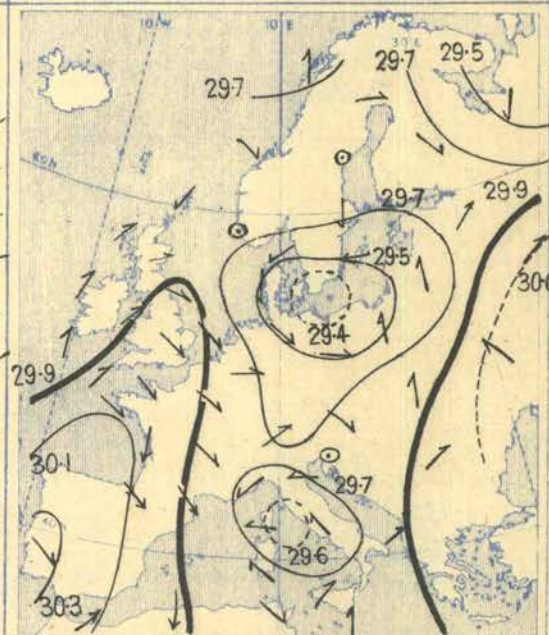
8 a.m.



Wind strong from the North-Westward or Northward on the south and east coasts of England, and also in the west and north of France; moderate from the same quarters on our own western and northern coasts generally, but Southerly in the north of Ireland. Light to fresh from the Southward or South-Westward over central France and Germany, Westerly or South-Westerly over Russia; Northerly in the south of Scandinavia, Easterly in Denmark; variable in Austria and Italy. Subsequently backing to the Southward on all our western and northern coasts.

Barometer highest, 30.3 ins. and upwards in an anticyclone lying off the Portuguese coasts; 30.1 ins. and upwards in another system lying over south-eastern Europe generally. Lowest, 29.2 ins. and less in a well-marked depression with its centre over Holstein, and also in a shallower disturbance over the extreme north of Russia. Both depressions moving eastwards later, but new one beginning to approach our Islands from the Atlantic.

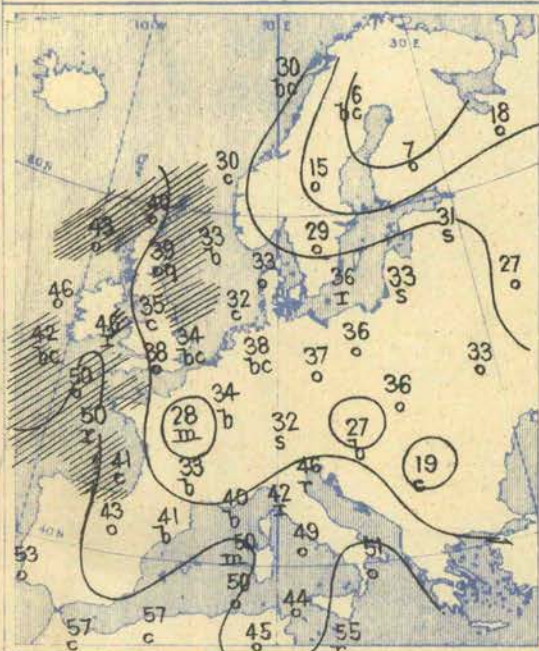
6 p.m.



Saturday, 31st December.

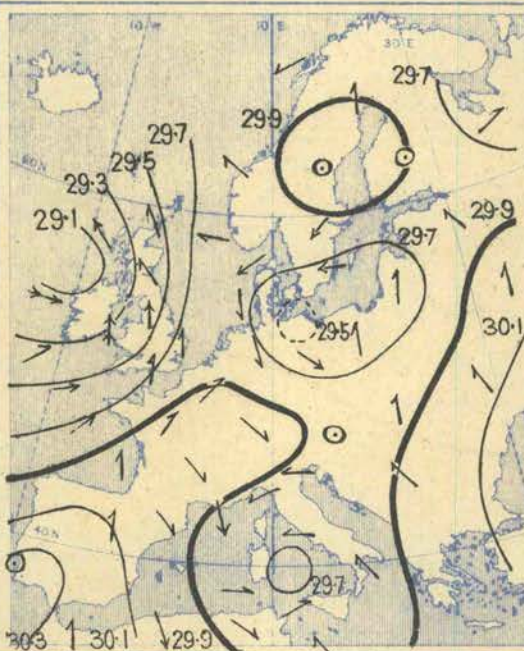
Temperature and Weather.

8 a.m.

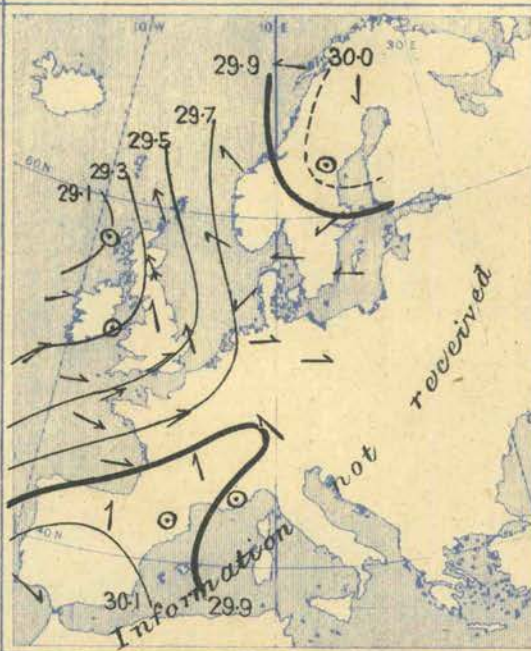


Barometer and Wind.

8 a.m.



8 p.m.



Weather in morning dull in our Islands, with rain at many of the English and Irish stations. Fine over the Netherlands and the central and southern parts of France as well as in Norway; cloudy in other parts of the Continent, with rain at Florence, Trieste and Malta and also at Wisby; snow falling at St. Petersburg, Riga, Swinemunde and Munich. Rain falling later over nearly the whole of western Europe, and snow in the north of England as well as in the Netherlands and the north of France.

Temperature risen in our Islands, but fallen at most of the Continental stations. Morning readings highest, 57° at Nemours, Oran and Algiers, 55° at Malta, and 53° at Lisbon; touching 50° on the south-west coasts of England. Lowest, (1) 6° at Haparanda, 7° at Uleaborg and Kuopio, and 13° at Archangel; (2) 19° at Hermanstadt; lowest in our Islands, 33° at Cambridge. Daily maxima below 40° in the north of England and below 45° in most other parts of Great Britain; thermometer exceeding 50° in the Scilly and Channel Islands, as well as in the west and south of France. Frost occurring in Great Britain at night.

Wind strong from the South-Westward in the south-west of our Islands and the north-west of France; Southerly in most other parts of the United Kingdom and France, with a gale on our north and north-west coasts. Easterly or North-Easterly in Finland and Scandinavia and strong in force in the south of Sweden; North-Westerly or Westerly in Germany; Southerly in the central and southern parts of Russia. Calm in Austria; Easterly or South-Easterly in Italy; North-Westerly in the extreme south of France. Moderating later on our western coasts, but increasing to a strong gale from the South-Eastward in the east of Scotland.

Barometer highest, 30.31 ins. at Lisbon; 30.1 ins. and upwards in an anticyclone extending from the Spanish Peninsula over the greater part of France and also in another system over Turkey and the southern parts of Russia. Lowest, 29.1 ins. and less in a depression with its centre lying to the westward of Scotland; 29.5 ins. and less in another disturbance over the southern part of the Baltic. Former depression subsequently moving northwards, but secondary systems forming over England.

GENERAL NOTES.

At the beginning of the week a large anticyclone still lay over the central and southern parts of Europe, while large depressions continued to travel eastwards across the northern parts of Scandinavia and Russia. The latter systems occasioned strong winds or gales from the South-Westward, and frequent rains, in the west and north of our Islands, and also over the northern parts of the Continent, but in other regions the weather was mostly fair and dry, with sharp frost over the central countries.

After the 26th the anticyclone receded further southward, and as a result of this, the cyclonic disturbances which continued to advance from the Atlantic pursued a more southerly track, their centres passing in some cases directly over our Islands. During the remainder of the week three depressions of considerable importance were observed. The first skirted the north-west and north of Scotland on the 27th (the barometer at Stornoway falling at 7 p.m. to a minimum of 28.19 ins.) and occasioned South-Westerly to Westerly gales, and heavy rain over nearly the whole of north-western and northern Europe, the gale being very severe in Scotland and the north of Ireland. The second depression came still further south, its centre advancing eastwards across Ireland and England on the 29th, and afterwards passing on to Denmark and the Baltic. On this occasion the gales were confined to our southern and the French coasts, but rain fell over the whole of western and central Europe, the amounts being large in many parts of France. In the rear of this disturbance the wind in our Islands veered to the North-Westward, with fine weather, and on the night of the 30th a sharp frost was experienced over Great Britain. The third depression appeared off our north-west coasts early on the 31st, and remained in that position till the close of the week, the wind backing to the South-Westward or Southward over nearly the whole of north-western Europe, and increasing to a gale on our western and northern coasts, with considerable falls of rain in places.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 308.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
DEERNESS (Orkney Islands)	6.2	?	15	?	WESTBOURNE (Emsworth)	11.1*	- 0.7	21*	0
STRATHPEFFER SPA	7.0	0.0	16	0	WATERGATE (Emsworth)				
EDINBURGH	1.4	- 4.5	3	- 8	BRIGHTON	11.7	+ 0.2	22	+ 1
MORPETH					EASTBOURNE	9.8	- 3.0	18	- 5
NEWCASTLE-ON-TYNE	7.8	?	16	?	VENTNOR HOSPITAL	11.4	?	21	?
OSWALDKIRK (Yorkshire)	5.3	- 2.8	10	- 6	SOUTHPORT	6.8	?	13	?
HOLLESLEY BAY	14.3	?	27	?	COLWYN BAY	10.2	?	20	?
SHEFFIELD	6.2	?	12	?	TENBY	13.5	+ 3.4	25	+ 5
WORKSOP	4.3	- 3.4	8	- 6	NEWQUAY				
THURCASTON (Leicestershire)	8.2	+ 1.2	16	+ 3	TORQUAY	14.4*	+ 2.4	26*	+ 4
PLUMSTEAD COMMON	9.8	?	18	?	GUERNSEY	12.5*	+ 1.7	22*	+ 4
MARGATE	6.3	- 4.3	12	- 7					

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature.						Rainfall.			Bright Sunshine.			
		(In Degrees Fahrenheit.)												
		Highest observed.	Lowest observed.	Averages for the week.			Difference of Daily Average from the Mean for the Week.	Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.					
Week ending Dec. 10th, 1898	Cranley	56	36	53.3	44.6	49.1	+ 8.1	50	0	7	1.41	?	—	—
" " " 17th, "	Hereford	57	36	53.2	43.4	48.5	+ 9.6	46	0	0	—	- 0.53	—	—
" " " 24th, "	Cranley	55	32	51.5	40.1	46.0	+ 6.3	36	5	4	0.09	?	—	—
" " " " "	Scarborough	53	31	43.9	34.4	39.4	+ 1.2	30	5	3	0.27	- 0.33	12.6	—
" " " " "	Cranley	52	26	44.2	33.4	39.0	- 0.2	6	33	2	0.07	?	—	—

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1898.

VOL. XV. APPENDIX I.]
New Series.

FIRST QUARTER—JANUARY TO MARCH.

[Price 4d.]

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE FIRST QUARTER OF THE THIRTY-THREE YEARS, 1866 TO 1898.

YEARS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.										CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.					
	0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.						MEANS FOR THE GRAZING, &c. DISTRICTS.			
	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.					Days.	Inches.	Days.	Inches.
Means for 5 years, 1866-70	—	12.6	—	9.6	—	5.4	—	5.7	—	6.9	—	8.5	—	7.2	—	12.6	—	11.8	—	13.7	—	11.8	—	11.0	—	12.2	—	—	—	9.7		
Means for 5 years, 1871-75	—	9.1	—	7.8	—	4.9	—	4.4	—	6.6	—	7.1	—	6.2	—	11.1	—	10.4	—	13.7	—	9.5	—	10.5	—	11.0	—	—	—	8.6		
Means for 5 years, 1876-80	—	9.5	—	7.2	—	5.3	—	5.7	—	6.2	—	7.2	—	6.3	—	11.2	—	9.5	—	9.9	—	9.2	—	10.0	—	10.0	—	—	—	8.2		
Means for 5 years, 1881-85	65	9.9	49	6.2	45	5.2	44	5.1	45	6.4	43	6.4	45	5.9	58	12.5	50	8.8	53	9.7	61	9.4	58	11.9	56	10.5	57	8.2	51	8.2		
1886	70	9.5	55	5.9	56	6.3	54	4.9	49	6.5	48	6.3	53	6.0	57	11.2	54	9.0	57	10.8	58	10.0	55	11.2	56	10.4	68	8.9	55	8.2		
1887	60	12.1	43	5.3	38	3.8	33	3.8	35	4.1	34	4.1	36	4.2	47	9.7	38	5.9	38	5.5	47	7.3	40	7.6	41	7.2	42	4.3	39	5.7		
1888	62	10.2	55	6.9	49	5.6	50	5.1	43	4.6	46	5.8	49	5.6	41	8.6	51	5.0	48	7.1	47	7.2	41	7.6	46	7.1	61	7.3	48	6.4		
1889	72	13.8	52	4.8	46	4.8	47	3.9	43	5.6	47	5.1	47	4.8	48	10.6	51	6.0	48	9.1	66	8.6	55	8.6	56	8.6	58	6.7	52	6.7		
1890	67	15.2	54	8.1	48	5.3	52	5.6	46	5.1	46	5.6	49	5.9	60	13.6	56	8.4	53	8.9	62	8.7	58	12.7	58	10.5	54	8.3	54	8.2		
Means for 5 years, 1886-90	66	12.2	52	6.2	47	5.2	47	4.7	43	5.2	44	5.4	47	5.3	53	10.7	50	6.9	49	8.3	56	8.4	50	9.5	52	8.8	57	7.1	50	7.1		
1891	65	14.7	38	5.1	43	3.7	43	3.8	37	4.1	38	5.8	40	4.5	47	9.2	35	4.4	38	6.8	49	5.5	42	5.6	42	6.3	43	6.2	41	5.4		
1892	63	11.2	46	5.5	47	4.4	49	4.0	44	4.0	38	3.7	45	4.3	47	8.0	46	6.3	47	6.4	49	5.9	45	7.6	47	6.8	52	6.9	47	5.6		
1893	65	12.8	51	5.9	44	4.5	49	5.2	48	5.0	48	5.9	48	5.3	57	10.0	49	6.4	49	8.7	59	7.8	50	8.7	53	8.3	56	7.3	52	6.8		
1894	68	21.1	56	11.0	51	5.4	47	4.2	54	5.8	49	6.3	51	6.5	64	18.6	56	9.9	56	10.5	64	12.3	61	10.9	60	12.4	56	7.7	56	9.5		
1895	59	9.8	48	6.4	58	7.5	52	5.6	42	5.4	41	4.7	48	5.9	48	6.7	48	6.7	46	8.1	56	7.7	48	9.5	49	7.7	55	7.3	49	6.8		
Means for 5 years, 1891-95	64	13.9	48	6.8	49	5.1	48	4.6	45	4.9	43	5.3	47	5.3	53	10.5	47	6.7	47	8.1	55	7.8	49	8.5	50	8.3	52	7.1	49	6.8		
1896	68	17.8	50	4.8	39	4.1	47	4.9	45	4.3	42	4.4	45	4.5	61	12.1	53	8.3	50	6.9	56	9.2	51	8.8	54	9.1	53	4.9	50	6.8		
1897	65	11.0	57	6.9	59	6.4	57	6.9	54	7.9	52	9.2	56	7.5	58	11.0	61	7.9	65	13.0	66	9.6	61	11.8	62	10.7	70	11.6	59	9.1		
1898	77	18.7	52	4.8	44	3.4	41	3.5	39	2.9	37	3.5	43	3.6	62	10.5	50	7.3	48	6.0	61	7.8	44	6.6	53	7.6	56	4.4	48	5.6		
Means for 33 years, 1866-98	—	11.6	—	7.1	—	5.1	—	5.0	—	5.9	—	6.6	—	5.9	—	11.4	—	8.9	—	10.4	—	9.3	—	10.1	—	10.0	—	—	—	8.0		
Means for 5 years, 1866-70	33.8	39.1	38.9	39.9	39.9	39.9	40.7	39.7	40.1	40.5	43.1	40.6	42.1	41.3	—	40.5	40.8	41.6	44.0	41.6	43.7	42.3	—	41.3	40.2	40.5	42.7	41.3	43.1	41.6	44.9	44.8
Means for 5 years, 1871-75	40.2	40.0	39.7	39.9	40.5	41.2	40.3	39.9	38.9	40.2	40.8	41.3	40.6	40.3	39.9	39.9	40.2	43.2	40.8	43.6	41.5	—	40.5	40.2	40.5	42.7	41.3	43.1	41.6	44.9	44.8	
Means for 5 years, 1876-80	33.6	33.2	39.2	39.4	39.8	39.4	40.6	39.4	39.9	38.9	40.2	40.5	42.7	41.3	43.1	41.6	44.9	44.8	40.2	40.5	42.7	41.3	43.1	41.6	44.9	44.8	40.2	40.5	42.7	41.3	43.1	41.6
Means for 5 years, 1881-85	38.8	38.9	39.4	39.8	39.9	41.4	39.9	39.9	38.9	40.2	40.5	42.7	41.3	43.1	41.6	44.9	44.8	40.2	40.5	42.7	41.3	43.1	41.6	44.9	44.8	40.2	40.5	42.7	41.3	43.1	41.6	
1886	36.5	36.1	36.2	35.6	36.0	37.2	36.2	36.2	36.2	37.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	
1887	39.4	39.2	38.7	37.5	37.8	38.7	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	
1888	36.2	36.3	37.3	36.5	36.8	37.4	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	36.9	
1889	38.5	38.6	38.6	37.5	38.2	39.0	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	38.4	
1890	40.0	39.8	40.7	40.1	40.4	41.6	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	40.5	
Means for 5 years, 1886-90	38.1	38.0	38.3	37.4	37.8	38.8	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	
1891	38.4	38.0	37.9	37.4	38.0	38.4	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	37.9	
1892	36.3	36.1	36.9	36.3	36.6	38.3	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	36.8	
1893	38.8	38.8	40.2	39.8	40.3	41.3	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	
1894	39.2	38.8	39.8	40.0	40.4	41.8	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	40.2	
1895	34.3	32.5	34.9	34.4	33.6	35.3	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	
Means for 5 years, 1891-95	37.4	36.8	37.9	37.6	37.8	39.0	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	37.8	
1896	40.9	40.4	41.2	40.9	41.4	42.7	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	
1897	37.5	37.4	39.4	39.8	39.8	41.7	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39																	

TABLE IA.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE THIRTY-THREE YEARS, 1866 TO 1898.

					Wheat Districts.	Grazing, &c. Districts.			Generally.
					Ins.	Ins.		Ins.	
Rainfall	{	Driest	-	-	3.6 in 1898	8.3 in 1891		5.4 in 1891	
		Wettest	-	-	9.0 in 1872	14.9 in 1872		12.0 in 1872	
Temperature	{	Coldest	-	-	34.1 in 1895	38.2 in 1895		35.2 in 1895	
		Warmest	-	-	42.8 in 1882	44.6 in 1882		43.7 in 1882	

VOL. XV. APPENDIX I.]
New Series.

[Price 4d.]

YEARS.	O. SCOTLAND, N.		Principal Wheat-producing Districts.											Principal Grazing, &c. Districts.											CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.			
			1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT- PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.						MEANS FOR THE GRAZ- ING, &c. DISTRICTS.	
	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.		
Means for 5 years, 1866-70	—	8.8	—	5.7	—	5.5	—	4.5	—	5.3	—	5.1	—	5.2	—	7.1	—	6.5	—	7.0	—	7.5	—	7.2	—	7.1	—	—	—	6.2
Means for 5 years, 1871-75	—	8.5	—	6.5	—	5.5	—	5.5	—	6.4	—	6.4	—	6.1	—	7.3	—	7.4	—	7.9	—	7.5	—	6.2	—	7.3	—	—	—	6.7
Means for 5 years, 1876-80	—	6.3	—	6.9	—	7.1	—	7.2	—	7.7	—	7.1	—	7.2	—	8.5	—	7.8	—	9.0	—	8.3	—	9.8	—	8.7	—	—	—	8.0
Means for 5 years, 1881-85	51	6.7	44	5.2	43	5.8	39	5.9	41	6.5	38	5.6	41	5.8	47	8.1	42	7.0	44	7.2	52	7.2	46	7.7	46	7.4	45	5.6	44	6.6
1886	59	6.7	46	6.4	46	6.1	43	5.2	50	9.4	45	6.4	46	6.7	48	8.8	49	9.4	46	7.3	50	7.9	50	8.2	49	8.3	50	6.2	48	7.5
1887	45	6.2	32	3.7	33	3.0	35	3.6	31	4.0	31	3.8	32	3.6	34	5.8	27	3.8	29	8.5	29	4.5	26	3.3	29	4.2	35	3.8	31	3.9
1888	56	8.5	44	7.1	43	5.1	43	5.1	41	6.0	42	6.2	43	5.9	49	11.4	43	6.4	46	7.5	50	9.8	49	10.1	47	9.0	50	6.6	45	7.5
1889	50	4.9	42	5.8	39	5.0	43	7.3	41	8.1	41	5.7	41	6.4	44	7.7	40	6.8	40	5.9	45	7.2	46	7.6	43	7.0	39	5.3	42	6.7
1890	58	8.5	52	5.6	41	4.7	41	4.5	40	4.7	42	6.3	43	5.2	50	10.1	45	6.0	51	8.1	54	6.3	58	8.5	52	7.8	55	7.7	48	6.5
Means for 5 years, 1886-90	54	7.0	43	5.7	40	4.8	41	5.1	41	6.4	40	5.7	41	5.5	45	8.8	41	6.5	42	6.5	46	7.1	46	7.5	44	7.3	46	5.9	43	6.4
1891	45	6.3	36	4.4	35	4.3	41	5.5	43	6.7	38	4.8	39	5.1	36	5.0	39	5.9	42	7.2	46	6.1	45	8.4	42	6.5	41	6.2	41	5.8
1892	59	9.1	51	6.4	51	7.3	42	0.1	38	5.5	31	3.7	43	5.8	49	10.0	50	8.3	37	4.6	56	9.6	46	8.0	47	8.1	37	4.8	45	7.0
1893	41	5.2	36	5.1	28	3.2	22	2.3	23	3.1	20	1.7	26	3.1	30	5.4	27	4.2	21	3.0	33	4.9	30	4.8	28	4.5	17	2.1	27	3.8
1894	47	6.1	49	6.6	54	7.2	48	7.1	45	5.9	44	5.8	46	6.5	53	8.3	55	7.0	51	7.5	56	8.0	53	9.7	54	8.1	53	6.7	51	7.9
1895	49	8.9	38	4.9	32	4.1	27	2.9	28	4.1	26	2.9	30	3.8	40	4.7	30	4.4	26	4.2	42	4.3								

					Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	{	Driest	-	-	Ins. 3·1 in 1870 and 1893 9·4 in 1879	Ins. 4·2 in 1837 { 10·3 in 1872 and 1878 } { 10·2 in 1879 and 1882 }	Ins. 3·8 in 1893 9·8 in 1879
Temperature	{	Coldest	-	-	0 48·4 in 1879 54·0 in 1888 and 1893	0 46·1 in 1879 and 1885 55·2 in 1893	0 48·8 in 1879 54·6 in 1893
		Warmest	-	-			

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1898.

VOL. XV. APPENDIX I.]
New Series.

THIRD QUARTER—JULY TO SEPTEMBER.

[Price 4d.]

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE THIRD QUARTER OF THE THIRTY-THREE YEARS, 1866 TO 1898.

YEARS.	Principal Wheat-producing Districts.													Principal Grazing, &c. Districts.													CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.	
	0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR THE GRAZING, &c. DISTRICTS.					
	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.		
Means for 5 years, 1866-70	—	10.6	—	8.8	—	6.3	—	6.1	—	7.4	—	7.3	—	7.2	—	10.9	—	9.9	—	10.1	—	9.8	—	8.6	—	9.8	—	—	—	8.6
Means for 5 years, 1871-75	—	13.1	—	10.7	—	8.4	—	7.5	—	9.1	—	8.0	—	8.7	—	13.2	—	12.9	—	14.1	—	12.2	—	10.8	—	12.6	—	—	—	10.7
Means for 5 years, 1876-80	—	9.0	—	8.9	—	9.2	—	9.0	—	10.1	—	8.7	—	9.2	—	11.7	—	12.3	—	11.6	—	11.1	—	10.7	—	11.5	—	—	—	10.4
Means for 5 years, 1881-85	56	7.8	51	7.9	46	7.3	45	7.4	45	7.5	44	6.6	46	7.3	53	11.8	49	9.8	52	10.0	60	10.3	53	10.2	53	10.4	54	7.6	50	8.9
1886	59	8.7	43	5.0	41	6.8	38	6.5	39	6.4	35	5.8	39	6.1	48	11.4	42	10.3	40	9.3	54	9.3	53	10.9	47	10.2	48	7.2	43	8.2
1887	63	10.3	53	7.6	44	6.1	42	5.4	35	5.2	35	5.8	42	8.0	49	10.8	43	7.1	37	7.3	55	10.5	46	7.9	46	8.7	40	6.2	44	7.4
1888	55	9.3	52	7.1	49	9.2	53	8.4	43	7.9	46	7.9	50	8.1	53	9.7	50	9.6	53	9.8	54	9.5	44	8.4	51	9.4	51	7.8	51	8.8
1889	58	11.0	51	8.8	48	7.7	48	9.1	44	7.8	41	6.6	46	8.0	51	10.8	48	10.2	50	9.1	60	11.9	50	9.8	52	10.4	47	6.0	49	9.2
1890	65	12.1	54	8.4	48	8.3	44	7.2	47	6.6	44	8.6	47	7.8	44	12.0	53	9.2	52	9.8	65	10.2	55	8.4	56	9.9	44	8.1	52	8.9
Means for 5 years, 1886-90	60	10.3	51	7.4	46	7.6	45	7.3	43	6.8	40	6.9	45	7.2	51	10.9	47	9.3	46	9.1	58	10.3	50	9.1	50	9.7	46	7.1	48	8.5
1891	71	15.9	59	11.7	51	8.8	51	8.5	52	7.9	52	9.0	53	9.2	62	14.9	55	13.8	56	12.9	66	11.3	56	11.0	59	12.8	51	9.7	56	11.0
1892	66	15.0	51	8.3	44	6.6	40	8.2	46	7.5	44	8.4	45	7.8	53	15.5	53	12.1	51	10.0	62	12.0	53	13.2	54	13.5	43	7.2	50	10.2
1893	70	15.7	55	8.1	49	6.8	45	5.9	43	6.0	43	7.0	47	6.8	53	11.3	54	10.4	47	9.9	60	11.2	52	8.7	53	10.3	51	9.8	50	8.6
1894	53	10.5	48	8.9	49	6.2	54	7.6	44	6.8	51	9.2	49	7.7	40	7.3	44	8.0	52	10.7	54	6.8	45	8.8	47	8.3	54	11.9	48	8.0
1895	63	14.0	51	9.6	44	7.9	34	8.3	40	6.6	37	6.8	41	7.8	54	12.7	46	9.3	40	8.3	57	10.9	49	10.1	49	10.3	39	5.7	45	9.1
Means for 5 years, 1891-95	65	14.2	53	9.3	47	7.3	45	7.7	45	7.0	45	8.1	47	7.9	52	12.3	50	10.7	49	10.4	60	10.4	51	10.4	52	10.8	48	8.9	50	9.4
1896	59	13.5	59	9.3	52	6.9	49	8.2	51	8.3	46	9.1	51	8.4	60	13.9	55	11.3	49	10.0	64	13.5	56	12.7	57	12.3	50	9.6	54	10.4
1897	58	12.2	53	7.7	42	7.4	41	6.9	42	7.4	41	6.6	44	7.2	55	11.9	47	10.0	53	11.7	59	10.5	56	11.0	54	11.0	53	9.1	49	9.1
1898	57	13.1	43	6.5	30	3.8	21	2.9	25	4.2	19	2.8	28	4.0	49	11.1	40	7.2	29	5.4	51	8.9	42	9.0	42	8.3	34	3.7	35	6.2
Means for 33 years, 1866-98	—	11.0	—	8.7	—	7.5	—	7.4	—	7.9	—	7.5	—	7.8	—	11.0	—	10.7	—	10.7	—	10.7	—	10.1	—	10.8	—	—	—	9.3
Means for 5 years, 1866-70	54.4	57.1	57.0	59.7	59.7	60.1	58.7	57.9	59.0	61.0	58.5	59.5	59.2	59.0	57.7	58.5	60.4	57.2	58.8	58.5	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
Means for 5 years, 1871-75	54.5	56.7	57.5	59.7	59.6	60.0	58.7	57.7	58.5	60.4	57.2	58.8	58.5	58.5	57.2	58.1	59.9	56.8	59.0	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
Means for 5 years, 1876-80	54.1	56.4	57.6	59.6	59.3	60.3	58.6	57.2	58.1	59.9	56.8	59.0	58.2	58.2	55.9	57.2	58.1	56.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
Means for 5 years, 1881-85	53.1	56.3	57.3	59.0	58.2	59.3	58.1	55.8	56.9	58.1	56.8	58.1	56.8	58.1	55.4	57.2	58.9	56.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
1886	52.4	56.1	58.1	60.2	59.7	61.3	59.1	55.6	56.7	58.7	56.5	58.7	56.5	58.7	55.6	57.5	58.7	56.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
1887	52.9	55.8	57.1	59.1	58.2	59.7	58.0	55.2	56.3	58.3	56.1	58.3	56.1	58.3	55.2	57.5	58.7	56.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
1888	51.7	53.2	54.4	57.1	55.8	58.0	55.7	54.2	55.4	57.4	55.0	57.4	55.0	57.4	54.2	56.9	58.0	56.1	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
1889	53.2	54.7	56.4	58.1	57.5	59.4	57.2	55.5	56.6	58.6	56.4	58.6	56.4	58.6	55.5	57.5	58.0	56.1	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
1890	53.8	55.7	57.7	58.8	58.1	59.8	58.0	55.1	56.2	58.2	56.0	58.2	56.0	58.2	56.1	57.5	58.1	56.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5	57.5
Means for 5 years, 1886-90	52.8	55.1	56.7	58.7	57.9	59.6	57.6	54.0	55.7	57.0	58.4	57.5	59.2	57.6	54.4	56.2	57.6	55.1	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
1891	54.0	55.7	57.0	58.4	57.5	59.2	57.6	54.4	56.2	57.6	55.1	57.0	57.0	57.0	54.4	56.2	57.6	55.1	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
1892	52.1	53.5	55.4	57.6	56.5	58.3	56.4	54.0	55.7	57.0	58.4	57.5	59.2	57.6	54.4	56.2	57.6	55.1	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0	57.0
1893	55.0	56.3	58.4	60.5	60.2	61.7	59.4	55.0	56.3	58.4	60.5	60.2	61.7	59.4	55.0	56.3	58.4	60.5	60.2	61.7	59.4	55.0	56.3	58.4	60.5	60.2	61.7	59.4	55.0	56.3
1894	54.5	55.1	56.5	58.0	57.2	59.3	57.2	54.5	55.1	56.5	58.0	57.2	59.3	57.2	54.5	55.1	56.5	58.0	57.2	59.3	57.2	54.5	55.1	56.5	58.0	57.2	59.3	57.2	54.5	55.1
1895	55.4	56.9	59.4	60.8	60.0	61.7	59.8	55.4	56.9	59.4	60.8	60.0	61.7	59.8	55.4	56.9	59.4	60.8	60.0	61.7	59.8	55.4	56.9	59.4	60.8	60.0	61.7	59.8	55.4	56.9
Means for 5 years, 1891-95	54.2	55.5	57.3	59.1	58.3	60.2	58.1	54.2	55.5	57.3	59.1	58.3	60.2	58.1	54.2	55.5	57.3	59.1	58.3	60.2	58.1	54.2	55.5	57.3	59.1	58.3	60.2	58.1	54.2	55.5
1896	53.8	55.1	57.6	59.4	58.3	60.9	58.3	53.8	55.1	57.6	59.4	58.3	60.9	58.3	53.8	55.1	57.6	59.4	58.3	60.9	58.3	53.8	55.1	57.6	59.4	58.3	60.9	58.3	53.8	55.1
1897	54.9	55.9	57.4	59.3	58.6	60.9	58.4	54.9	55.9	57.4	59.3	58.6	60.9	58.4	54.9	55.9	57.4	59.3	58.6	60.9	58.4	54.9	55.9	57.4	59.3	58.6	60.9	58.4	54.9	55.9
1898	54.9	56.9	58.7	60.6	60.1	62.3	59.7	54.9	56.9	58.7	60.6	60.1	62.3	59.7	54.9	56.9	58.7	60.6	60.1	62.3	59.7	54.9	56.9	58.7	60.6	60.1	62.3	59.7	54.9	56.9
Means for 33 years, 1866-98	53.9	56.2	57.3	59.3	58.8	60.2	58.4	53.9	56.2	57.3	59.3	58.8	60.2	58.4	53.9	56.2	57.3	59.3	58.8	60.2	58.4	53.9	56.2	57.3	59.3	58.8	60.2	58.4	53.9	56.2

TABLE IA.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE THIRTY-THREE YEARS, 1866 TO 1898.

Wheat Districts.				Grazing, &c. Districts.				Generally.			
Rainfall				Ins.				Ins.			
{ Driest				4.0 in 1898				5.7 in 1870			
{ Wettest				10.6 in 1879				12.4 in 1879			
{ Coldest				55.7 in 1888				55.6 in 1888			
{ Warmest				60.9 in 1868				60.9 in 1868			

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1898.

VOL. XV. APPENDIX I.]
New Series.

FOURTH QUARTER—OCTOBER TO DECEMBER.

[Price 4d.]

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE FOURTH QUARTER OF THE THIRTY-THREE YEARS, 1866 TO 1898.

YEARS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.														CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.	
	0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR THE GRAZING, &c. DISTRICTS.							
	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.				
Means for 5 } years, 1866-70 }	—	18.4	—	8.8	—	7.7	—	7.4	—	7.6	—	8.3	—	8.0	—	12.9	—	14.7	—	14.6	—	12.6	—	10.5	—	13.1	—	—	10.6			
Means for 5 } years, 1871-75 }	—	17.2	—	10.4	—	7.7	—	7.2	—	7.9	—	9.9	—	8.6	—	13.1	—	13.3	—	16.3	—	11.1	—	12.1	—	13.2	—	—	10.9			
Means for 5 } years, 1876-80 }	—	13.8	—	9.1	—	8.1	—	7.2	—	8.1	—	9.5	—	8.4	—	12.8	—	12.0	—	14.1	—	11.0	—	11.3	—	12.2	—	—	10.3			
Means for 5 } years, 1881-85 }	68	12.7	54	7.2	55	7.3	59	8.8	55	8.6	52	8.9	55	8.2	58	15.8	56	11.0	62	13.7	64	11.8	61	11.8	60	12.8	67	12.4	58	10.5		
1886 - - -	75	14.3	60	7.8	56	10.0	58	9.5	64	10.9	67	14.4	61	10.5	65	16.8	69	14.3	75	19.1	71	15.5	69	18.0	70	16.3	85	16.3	66	13.4		
1887 - - -	73	13.0	55	7.8	59	7.7	56	8.3	47	5.9	50	7.8	53	7.1	51	12.4	55	8.1	55	12.0	57	10.0	47	9.7	53	10.4	64	11.9	53	8.8		
1888 - - -	69	15.9	57	9.3	46	5.7	42	5.8	43	8.4	50	8.6	48	7.5	57	16.8	56	10.1	61	14.0	60	10.4	63	13.8	61	13.0	66	10.2	55	10.3		
1889 - - -	65	12.3	52	8.6	49	6.6	51	6.0	47	5.3	46	8.2	49	6.5	58	13.3	58	9.4	59	11.8	61	10.8	59	11.6	58	11.4	66	12.2	54	9.0		
1890 - - -	74	19.3	62	10.8	56	6.7	46	5.4	49	5.6	48	4.9	52	6.7	60	17.1	56	11.4	62	11.3	65	13.6	58	11.8	60	13.0	63	8.9	56	9.9		
Means for 5 } years, 1886-90 }	71	15.0	57	8.5	53	7.3	51	6.6	50	7.2	52	8.8	53	7.7	58	15.3	59	10.7	62	13.6	64	12.1	59	12.6	60	12.9	69	11.9	57	10.3		
1891 - - -	61	15.9	51	9.7	52	7.8	62	9.0	60	11.4	62	13.6	57	10.3	60	20.8	58	14.2	64	18.2	64	12.4	61	16.5	61	16.1	66	14.6	59	13.4		
1892 - - -	65	14.5	53	8.0	55	7.3	49	8.9	48	6.1	47	8.6	50	7.8	57	13.0	56	10.5	57	10.1	68	10.5	59	11.3	59	11.1	63	10.3	55	9.5		
1893 - - -	76	24.2	57	8.2	52	5.9	55	7.7	50	6.7	51	8.9	53	7.5	65	16.4	61	10.4	56	12.1	65	10.1	57	10.4	61	11.9	61	9.2	57	9.7		
1894 - - -	66	15.8	48	7.4	54	7.0	56	7.7	53	8.9	52	10.8	53	8.4	62	15.3	58	11.4	55	16.2	60	10.9	53	14.1	58	13.6	58	12.3	56	11.0		
1895 - - -	66	16.6	58	10.6	55	8.2	52	7.4	53	8.6	56	10.5	55	9.1	53	14.2	59	11.9	65	16.6	63	12.7	62	13.8	60	13.8	74	15.3	58	11.5		
Means for 5 } years, 1891-95 }	67	17.4	53	8.8	54	7.2	55	8.1	53	8.3	54	10.5	54	8.6	59	15.9	58	11.7	59	14.6	64	11.3	58	13.2	60	13.3	64	12.3	57	11.0		
1896 - - -	71	15.9	62	10.4	68	11.1	61	8.0	58	8.2	57	9.3	61	9.4	58	13.1	57	11.2	63	14.0	62	10.4	58	11.5	60	12.0	76	12.9	61	10.9		
1897 - - -	59	14.7	47	7.7	43	5.2	37	3.9	42	6.0	37	5.5	41	5.7	55	14.4	44	11.2	44	11.0	54	10.4	49	15.0	49	12.4	46	8.9	45	9.8		
1898 - - -	71	24.4	59	11.4	52	8.5	48	7.2	50	8.3	48	9.2	51	8.9	62	16.1	63	10.5	64	13.3	69	11.7	64	13.5	64	13.4	68	12.7	58	11.2		
Means for 33 } years, 1866-98 }	—	16.0	—	8.9	—	7.6	—	7.4	—	7.9	—	9.2	—	8.2	—	14.3	—	12.1	—	14.4	—	11.6	—	12.1	—	—	—	—	—	10.6		
Means for 5 } years, 1866-70 }	0	42.1	0	42.1	0	42.5	0	43.6	0	43.4	0	44.2	0	43.2	0	43.2	0	43.8	0	47.0	0	44.0	0	45.2	0	44.6	0	—	43.9			
Means for 5 } years, 1871-75 }	42.4	41.8	42.7	42.9	42.8	43.6	42.8	42.7	42.9	43.6	42.8	42.7	42.9	43.6	42.8	43.6	42.9	43.7	47.1	43.6	45.6	44.6	44.3	44.3	44.3	44.3	44.3	44.3	43.6			
Means for 5 } years, 1876-80 }	41.7	41.6	42.3	42.9	42.4	44.2	42.7	42.9	43.7	47.1	43.6	45.6	44.6	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	44.3	43.7			
Means for 5 } years, 1881-85 }	42.6	42.0	43.4	43.4	43.0	45.1	43.4	43.5	44.4	46.3	44.2	45.8	45.1	44.5	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.1			
1886 - - -	42.6	42.5	43.6	43.9	43.5	45.6	43.8	43.5	44.7	46.3	44.2	45.8	45.1	44.5	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.1			
1887 - - -	39.2	39.4	40.3	40.2	39.9	41.7	40.3	40.3	41.7	46.3	44.2	45.8	45.1	44.5	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.1			
1888 - - -	43.2	43.4	44.1	43.9	43.8	46.1	44.3	44.3	46.1	46.3	44.2	45.8	45.1	44.5	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.2			
1889 - - -	43.1	43.2	43.1	43.0	42.7	44.9	43.2	43.2	44.9	46.3	44.2	45.8	45.1	44.5	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.2			
1890 - - -	42.3	41.5	42.1	40.5	40.4	42.2	41.3	41.3	42.2	46.3	44.2	45.8	45.1	44.5	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.2			
Means for 5 } years, 1886-90 }	42.1	41.8	42.6	42.3	42.1	44.1	42.6	42.6	43.6	45.2	44.2	45.5	44.0	43.5	43.6	43.6	45.2	44.2	45.5	44.2	45.5	44.0	44.7	44.7	44.7	44.7	44.7	44.7	43.5			
1891 - - -	42.0	40.8	42.3	43.6	42.5	45.6	43.0	43.0	45.6	46.3	44.2	45.8	45.1	44.5	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.1			
1892 - - -	40.2	39.1	40.9	41.5	40.5	43.5	41.1	41.1	43.5	46.3	44.2	45.8	45.1	44.5	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.1			
1893 - - -	41.9	42.0	44.0	43.9	43.4	45.3	43.7	43.7	45.3	46.3	44.2	45.8	45.1	44.5	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.1			
1894 - - -	44.0	42.7	44.7	45.5	45.2	47.4	45.1	45.1	47.4	46.3	44.2	45.8	45.1	44.5	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.1			
1895 - - -	41.2	40.5	43.0	43.8	42.9	46.0	43.2	43.2	46.0	46.3	44.2	45.8	45.1	44.5	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.1			
Means for 5 } years, 1891-95 }	41.9	41.0	43.0	43.7	42.9	45.6	43.2	43.2	45.6	46.3	44.2	45.8	45.1	44.5	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.1			
1896 - - -	41.2	40.5	41.9	41.8	40.9	43.5	41.7	41.7	43.5	46.3	44.2	45.8	45.1	44.5	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.1			
1897 - - -	43.2	42.9	45.0	44.4	44.2	47.4	45.1	45.1	47.4	46.3	44.2	45.8	45.1	44.5	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.1			
1898 - - -	44.3	44.2	47.0	47.4	46.7	49.3	46.9	46.9	49.3	46.3	44.2	45.8	45.1	44.5	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4	44.4			

TABLE IA.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE THIRTY-THREE YEARS, 1866 TO 1898.

CORRESPONDING QUARTERS FOR THE THIRTY-THREE YEARS, 1856-1888.												
					Wheat Districts.			Grazing, &c. Districts.			Generally.	
					Ins.			Ins.			Ins.	
					5.0 in 1879			4.2 in 1879			15.9 in 1872	
					18.6 in 1872							
					40.3 in 1887			41.9 in 1887			41.1 in 1887	
					46.9 in 1886			48.1 in 1886			47.5 in 1886	
Rainfall { Driest - - -												
Wettest - - -												
Temperature { Coldest - - -												
Warmest - - -												

YEAR AND MONTHS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.										CHANNEL ISLANDS.	MEANS FOR THE BRITISH ISLANDS GENERALLY.				
	0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR THE GRAZING, &c. DISTRICTS.						
	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.		For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.							
Oct.	17	208	18	163	18	142	15	123	17	129	15	117	17	137	15	181	17	156	20	144	18	194	18	156	18	166	21	161	18	154
Nov.	20	228	17	180	15	157	15	138	15	144	15	132	15	152	17	198	19	175	19	163	20	214	18	174	19	185	20	181	17	171
Dec.	34	262	24	204	19	176	18	156	18	162	18	150	19	171	30	228	27	202	25	188	31	245	28	202	28	213	27	208	24	195

RAINFALL.—NUMBERS OF DAYS WITH RAIN.																														
Oct.	17	208	18	163	18	142	15	123	17	129	15	117	17	137	15	181	17	156	20	144	18	194	18	156	18	166	21	161	18	154
Nov.	20	228	17	180	15	157	15	138	15	144	15	132	15	152	17	198	19	175	19	163	20	214	18	174	19	185	20	181	17	171
Dec.	34	262	24	204	19	176	18	156	18	162	18	150	19	171	30	228	27	202	25	188	31	245	28	202	28	213	27	208	24	195

RAINFALL.—AMOUNTS IN INCHES.																														
Oct.	4.31	45.97	3.70	22.18	3.61	17.01	2.45	15.48	3.47	17.15	2.90	15.44	3.23	17.45	3.20	33.49	3.41	26.71	5.78	26.03	2.87	28.94	4.71	30.60	4.01	29.15	4.23	19.94	3.64	23.34
Nov.	6.45	52.42	3.99	26.17	2.63	19.64	2.21	17.69	2.35	19.50	3.07	18.51	2.85	20.30	5.52	39.01	3.27	29.98	3.86	29.89	4.21	33.15	4.50	35.10	4.27	33.42	3.18	23.12	3.56	26.90
Dec.	13.62	66.04	3.63	29.80	2.25	21.89	2.55	20.24	2.44	21.94	3.17	21.68	2.81	23.11	7.31	46.32	3.85	33.83	5.67	35.56	4.57	37.72	4.27	39.37	5.13	38.55	5.33	28.45	3.97	30.87

ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																														
Oct.	224	2142	209	2426	203	2717	318	3041	280	2983	358	3356	292	2905	264	2644	298	2884	344	3196	260	2774	306	3223	294	2944	434	3776	293	2927
Nov.	100	2242	102	2528	133	2850	151	3192	123	3106	196	3552	141	3046	116	2760	161	3045	197	3393	124	2898	163	3386	152	3096	284	4060	147	3074
Dec.	89	2331	89	2617	115	2965	123	3315	127	3233	158	3710	123	3168	131	2891	162	3207	192	3584	146	3044	190	3576	164	3260	254	4314	143	3217

ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																														
Oct.	2	397	1	428	0	333	0	410	5	417	0	234	1	364	0	245	0	215	0	205	0	227	0	165	0	212	0	55	1	290
Nov.	59	456	71	499	30	363	25	435	29	446	8	242	33	397	30	275	24	239	9	214	23	250	26	191	22	234	0	55	28	318
Dec.	97	553	120	619	70	433	84	519	76	522	40	282	78	475	43	318	29	268	22	236	30	280	13	204	27	261	0	55	53	371

BRIGHT SUNSHINE.—NUMBERS OF HOURS.																														
Oct.	108	1170	71	1241	65	1156	80	1410	44	1287	63	1409	65	1300	66	1249	63	1338	68	1569	77	1209	96	1374	74	1348	113	1832	70	1327
Nov.	40	1210	44	1285	39	1195	79	1489	49	1336	73	1482	57	1357	39	1288	54	1392	73	1642	48	1257	66	1440	56	1404	84	1916	57	1384
Dec.	20	1230	29	1314	42	1237	67	1556	51	1387	53	1535	48	1405	32	1320	40	1432	56	1698	39	1296	46	1486	43	1446	52	1968	46	1430

BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																														
Oct.	38	30	25	32	22	31	27	36	16	35	22	38	22	34	22	33	22	36	23	42	27	31	32	36	25	36	33	50	24	35
Nov.	18	29	19	31	17	30	32	36	20	34	29	38	23	34	16	32	22	35	28	40	20	31	27	35	23	35	33	49	23	35
Dec.	9	18	12	30	17	29	25	35	20	32	19	36	19	32	13	31	15	33	20	39	15	30	18	34	16	33	18	47	18	33

EXPLANATION OF TABLES.

TABLES I. and IA. are merely in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884-97. The whole of the values for 1878-98, however, have been corrected by information received since they were first published.

TABLE II. In this Table the monthly values for *October* are those for the fortieth to the forty-third weeks in the year; those for *November* are for the forty-fourth to the forty-eighth weeks; those for *December* are for the forty-ninth to the fifty-second weeks.

The figures given in the columns headed "From Jan. 2" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for the Grazing, &c. Districts" the values for the "Channel Islands" are not included.

The Means for the British Islands generally are those for the Wheat Districts and Grazing Districts combined.

SUMMARY OF THE WEEKLY WEATHER REPORT, 1898.

VOL. XV. APPENDIX I.]

VALUES FOR THE WHOLE YEAR.

[Price 4d.]

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE FOR THE WHOLE YEAR DURING THE THIRTY-THREE YEARS, 1866 TO 1898.

YEARS.	0. SCOTLAND, N.		Principal Wheat-producing Districts.										Principal Grazing, &c., Districts.										CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.						
	Days.	Inches.	1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR THE GRAZING, &c., DISTRICTS.		Days.	Inches.	Days.	Inches.	
			Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.									
Means for 5 years, 1866-70	—	50.4	—	32.9	—	25.0	—	23.8	—	27.3	—	29.2	—	27.6	—	43.5	—	42.9	—	45.4	—	41.7	—	37.4	—	42.2	—	—	—	—	34.9
Means for 5 years, 1871-75	—	47.8	—	35.4	—	28.5	—	24.6	—	30.1	—	31.4	—	29.6	—	44.7	—	44.0	—	52.0	—	40.3	—	39.6	—	44.1	—	—	—	—	36.9
Means for 5 years, 1876-80	—	38.6	—	32.0	—	29.8	—	29.0	—	32.2	—	32.5	—	31.1	—	44.2	—	41.4	—	44.6	—	39.6	—	41.9	—	42.3	—	—	—	—	36.7
Means for 5 years, 1881-85	241	37.1	198	26.4	188	25.5	187	27.2	186	29.0	177	27.4	187	27.1	216	48.1	198	36.6	211	40.7	236	38.6	217	41.7	216	41.1	222	33.8	202	34.1	
1886	—	26.3	39.1	20.4	24.9	199	20.2	193	26.2	202	33.1	195	32.9	199	29.3	218	48.1	214	43.0	218	46.5	234	42.8	227	46.3	222	45.3	251	38.6	211	37.3
1887	—	24.1	41.6	18.3	24.4	174	20.6	166	19.1	148	19.2	150	21.5	164	21.0	181	38.7	163	24.9	159	28.3	188	32.3	159	28.5	170	30.5	181	26.2	167	25.8
1888	—	24.2	43.9	20.8	30.4	187	25.6	188	24.2	175	26.8	184	28.5	188	27.1	200	46.5	200	31.1	208	38.4	217	36.9	197	39.9	205	38.6	228	31.9	199	32.9
1889	—	24.5	42.0	197	26.0	182	24.1	189	26.3	175	26.8	175	25.6	185	25.8	211	42.4	197	32.4	197	35.9	232	38.5	210	37.6	209	37.4	210	30.2	200	31.6
1890	—	26.4	55.1	222	32.9	193	25.0	184	22.7	182	22.0	180	25.4	192	25.6	224	52.8	210	35.0	218	38.1	246	38.8	229	41.4	225	41.2	216	33.1	209	33.4
Means for 5 years, 1886-90	251	44.3	203	27.7	187	24.9	184	23.7	176	25.6	177	26.8	185	25.7	207	45.7	197	33.3	200	37.4	223	37.9	204	38.7	206	38.6	217	32.0	196	32.2	
1891	—	24.2	52.8	184	30.9	181	24.6	197	26.8	192	30.1	190	33.2	188	29.1	205	49.9	186	38.3	200	45.1	225	35.3	204	41.5	203	42.0	201	36.7	197	35.6
1892	—	25.3	49.8	201	28.2	197	25.6	180	27.2	176	23.1	160	24.4	183	25.7	206	46.5	205	37.2	192	31.1	232	38.0	203	40.1	208	38.6	195	29.2	196	32.2
1893	—	25.2	57.9	199	27.3	173	20.4	171	21.1	164	20.8	162	23.5	174	22.6	205	43.1	191	31.4	173	33.7	217	34.0	189	32.6	195	35.0	185	28.4	185	28.8
1894	—	23.4	53.5	201	33.9	208	25.8	205	26.6	196	27.4	196	32.1	201	29.2	219	49.5	213	36.3	214	44.9	234	38.0	212	43.5	218	42.4	221	38.6	210	35.8
1895	—	23.7	49.3	195	31.5	189	27.7	165	24.2	163	24.7	160	24.9	174	26.6	196	38.3	183	32.3	177	37.3	218	35.6	192	38.0	193	36.3	199	31.9	184	31.5
Means for 5 years, 1891-95	244	52.7	196	30.4	190	24.8	184	25.2	178	25.2	174	27.6	184	26.6	206	45.5	196	35.1	191	38.4	225	36.2	200	39.1	204	38.9	200	33.0	194	32.8	
1896	—	25.2	56.2	213	29.5	196	25.3	190	24.9	184	24.6	173	25.8	191	28.0	216	45.4	200	35.2	186	33.7	226	39.2	199	36.8	205	38.1	208	30.2	198	32.1
1897	—	23.1	46.6	204	30.3	181	24.4	174	23.0	178	28.0	168	26.7	180	28.5	222	47.5	199	37.1	206	43.7	234	41.1	219	47.8	215	43.4	218	35.9	201	35.0
1898	—	26.2	66.1	204	29.7	176	21.9	156	20.3	162	22.0	150	21.7	170	23.1	218	46.4	202	33.8	188	35.6	245	37.8	202	39.4	213	38.6	208	28.4	192	30.9
Means for 33 years, 1866-98	—	46.2	—	30.7	—	25.9	—	25.3	—	27.9	—	28.8	—	27.7	—	45.4	—	38.6	—	42.6	—	39.1	—	39.9	—	41.1	—	—	—	—	34.4
Means for 5 years, 1866-70	45.9	—	47.2	—	47.1	—	49.0	—	49.1	—	49.5	—	48.4	—	48.1	—	48.8	—	51.3	—	48.9	—	50.0	—	49.4	—	—	—	—	48.9	
Means for 5 years, 1871-75	46.3	—	47.1	—	47.4	—	48.4	—	48.8	—	49.3	—	48.2	—	48.1	—	48.6	—	50.9	—	48.4	—	50.3	—	49.3	—	—	—	—	48.8	
Means for 5 years, 1876-80	45.4	—	46.3	—	47.1	—	48.3	—	48.2	—	49.3	—	47.8	—	47.6	—	48.1	—	50.6	—	47.9	—	50.1	—	48.9	—	—	—	—	48.4	
Means for 5 years, 1881-85	45.3	—	46.6	—	47.5	—	48.5	—	48.2	—	49.8	—	48.1	—	47.4	—	48.2	—	49.7	—	48.0	—	49.4	—	48.5	—	51.6	—	—	48.3	
1886	—	44.3	45.6	—	46.4	—	47.5	—	47.4	—	49.0	—	47.2	—	46.3	—	47.1	—	48.8	—	47.0	—	48.7	—	47.6	—	51.2	—	—	47.4	
1887	—	45.0	46.2	—	46.6	—	47.1	—	47.0	—	48.1	—	47.0	—	46.8	—	47.3	—	48.6	—	48.0	—	49.2	—	48.0	—	50.9	—	—	47.5	
1888	—	44.4	45.1	—	46.1	—	47.0	—	46.7	—	48.2	—	46.6	—	46.7	—	47.1	—	48.3	—	47.5	—	48.9	—	47.7	—	50.8	—	—	47.2	
1889	—	46.1	46.6	—	47.4	—	47.9	—	48.0	—	49.5	—	47.9	—	48.0	—	48.3	—	49.4	—	48.5	—	49.8	—	48.8	—	51.9	—	—	48.4	
1890	—	46.0	46.6	—	47.6	—	47.7	—	47.5	—	49.1	—	47.7	—	47.7	—	48.1	—	49.2	—	48.4	—	49.7	—	48.6	—	51.3	—	—	48.2	
Means for 5 years, 1886-90	45.2	—	46.1	—	46.8	—	47.4	—	47.3	—	48.8	—	47.3	—	47.1	—	47.6	—	48.9	—	47.9	—	49.3	—	48.2	—	51.2	—	—	47.8	
1891	—	45.5	45.7	—	46.5	—	47.5	—	47.2	—	48.9	—	47.2	—	47.3	—	47.8	—	48.8	—	47.8	—	49.0	—	48.1	—	51.3	—	—	47.7	
1892	—	43.9	44.2	—	45.7	—	46.8	—	46.3	—	48.4	—	46.3	—	45.9	—	46.8	—	48.4	—	47.0	—	48.5	—	47.3	—	51.4	—	—	46.8	
1893	—	46.7	47.3	—	48.7	—	49.6	—	49.8	—	51.2	—	49.3	—	48.9	—	50.3	—	51.4	—	49.8	—	51.2	—	50.3	—	53.9	—	—	49.8	
1894	—	46.5	46.2	—	47.6	—	48.8	—	48.6	—	50.4	—	48.3	—	48.0	—	49.3	—	50.1	—	48.5	—	50.0	—	49.2	—	52.7	—	—	48.8	
1895	—	45.0	45.1	—	47.0	—	47.8	—	47.4	—	49.1	—	47.3	—	46.7	—	47.7	—	49.0	—	47.3	—	48.8	—	47.9	—	51.8	—	—	47.6	
Means for 5 years, 1891-95	45.5	—	45.7	—	47.1	—	48.1	—	47.9	—	49.6	—	47.7	—	47.4	—	48.4	—	49.5	—	48.1	—	49.5	—	48.6	—	52.2	—	—	48.2	
1896	—	46.4	46.9	—	48.1	—	48.7	—	48.5	—	50.3	—	48.5	—	48.3	—	49.2	—	50.3	—	48.7	—	50.3	—	49.4	—	52.9	—	—	49.0	
1897	—	45.8	46.1	—	47.9	—	48.9	—	48.7	—	50.9	—	48.5	—	48.0	—	49.1	—	50.7	—	48.4	—	50.5	—	49.3	—	53.2	—	—	48.9	
1898	—	46.9	47.7	—	49.2	—	50.0	—	49.7	—	51.6	—	49.6	—	49.2	—	50.2	—	51.4	—	49.7	—	51.5	—	50.4	—	53.9	—	—	50.0	
Means for 33 years, 1866-98	45.7	—	46.5	—	47.3	—	48.4	—	48.3	—	49.5	—	48.0	—	47.7	—	48.4	—	50.2	—	48.3	—	49.9	—	48.9	—	—	—	—	48.5	

TABLE 1A.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST YEARS FOR THE THIRTY-THREE YEARS, 1866 TO 1898.

		Wheat Districts.		Grazing, &c., Districts.		Generally.	
Rainfall	{ Driest	—	—	Ins.	30.5 in 1887	Ins.	25.8 in 1887
	{ Wettest	—	—		58.0 in 1872		49.1 in 1872
Temperature	{ Coldest	—	—	45.5 in 1879	46.9 in 1879	46.2 in 1879	
	{ Warmest	—	—	50.1 in 1868	50.7 in 1868	50.4 in 1868	

NOTES.

1.—Rainfall.

The mean values for the Rainfall in the districts given as Table I. in the various Quarterly Summaries were obtained as follows. Those for the years 1866 to 1877 were derived from observations made at the following stations :—

Districts.	Stations.	Districts.	Stations.
0 SCOTLAND, N.	{ Loch Broom. Helmsdale. Sandwick Manse.	5. ENGLAND, S.	{ Bridport. Selborne. Maidstone. London (Camden Town).
1. SCOTLAND, E.	{ Inverness. Aberdeen. Ballater. Logierait. Stirling. Hawick.	6. SCOTLAND, W.	{ Dumfries. Ayr. Castle Toward.
2. ENGLAND, N.E.	{ N. Shields. York. Grimsby. Boston.	7. ENGLAND, N.W., and N. WALES	{ Llandudno. Manchester. Skipton.
3 ENGLAND, E.	{ 1866 to 1875. { Fakenham. Beccles. Witham. Bury St. Edmunds. 1876 { Yarmouth. & 1877. { Cambridge. Bury St. Edmunds.	8. ENGLAND, S.W., and S. WALES	{ Barnstaple. Bodmin. Haverfordwest. Rhayader.
4. MIDLAND COUNTIES	{ Leicester. Derby. Tenbury. Shifnal. Cirencester. Banbury. Hitchin.	9. IRELAND, N.	{ Galway. Bunninadden, Co. Sligo. (Doo Castle.) Waringstown. Strabane.
		10. IRELAND, S.	{ Cork. Waterford. Killaloe. Portarlington. Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868-1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations :—

Districts.	Stations.	Districts.	Stations.
0. SCOTLAND, N.	{ Sandwick Manse. Stornoway. Dunrobin.	7. ENGLAND, N.W., and N. WALES	{ Stonyhurst. Bradford. Leeds. Eccles. Liverpool. Llandudno.
1. SCOTLAND, E.	{ Culloden. Aberdeen. Perth. Leith.	8. ENGLAND, S.W., and S. WALES	{ Gloucester. Taunton. Barnstaple. Truro. Helston.
2. ENGLAND, N.E.	{ Bywell. N. Shields. Hull.	9. IRELAND, N.	{ 1866 to 1873. { Belfast. Milltown (Banbridge). Armagh.† Athlone.* Moville. 1874 to 1877. { Milltown. Armagh. Donaghadee.
3. ENGLAND, E.	{ Royston. Holkham. Norwich. Wisbeach. Somerleyton.	10. IRELAND, S.	{ 1866 to 1873. { Dublin.* Curragh Camp. Buttevant.* Cork. Valencia.† Kingstown. Parsonstown. Cork. Roche's Point. Valencia. 1874 to 1877. {
4. MIDLAND COUNTIES	{ Derby. Nottingham. Cardington. Oxford.		
5. ENGLAND, S.	{ Marlborough. Greenwich. Streatley. London (Camden Town). Weybridge. Strathfield Turgiss. Osborne. Bournemouth. Worthing.		
6. SCOTLAND, W.	{ Greenock. Cockermouth. Silloth. Carlisle.		

(The values were obtained mainly from the returns published quarterly by the Registrar General, by the Scottish Meteorological Society (in their Quarterly Journal), and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1898 the means are obtained from the observations published in the Weekly Weather Report.

* Did not commence till January 1867.

† Did not commence till January 1869.

By Order,

ROBERT H. SCOTT, Secretary.

WEEKLY WEATHER REPORT, 1898.

VOL. XV. APPENDIX II.]
Third Series.

[Price 1s.]

TABLE I.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF RAINY DAYS IN EACH DISTRICT DURING THE YEAR 1898.

DATE.	LIMITS OF WEEKS.	Principal Wheat-producing Districts.										Principal Grazing, &c. Districts.										CHANNEL ISLANDS.	MEANS FOR THE BRITISH ISLANDS GENERALLY.		
		0.	1.	2.	3.	4.	5.	MEANS FOR WHEAT PRODUCING DISTRICTS.	6.	7.	8.	9.	10.	MEANS FOR GRAZING, &c. DISTRICTS.											
		SCOTLAND, N.	SCOTLAND, E.	ENGLAND, N.E.	ENGLAND, E.	MIDLAND COUNTIES.	ENGLAND, S.		SCOTLAND, W.	ENGLAND, N.W.	ENGLAND, S.W.	IRELAND, N.	IRELAND, S.												
Weekly.	From Jan. 2 nd 1898.	Weekly.	From Jan. 2 nd 1898.	Weekly.	From Jan. 2 nd 1898.	Weekly.	From Jan. 2 nd 1898.	Weekly.	From Jan. 2 nd 1898.	Weekly.	From Jan. 2 nd 1898.	Weekly.	From Jan. 2 nd 1898.	Weekly.	From Jan. 2 nd 1898.	Weekly.	From Jan. 2 nd 1898.	Weekly.	From Jan. 2 nd 1898.	Weekly.	From Jan. 2 nd 1898.	Weekly.	From Jan. 2 nd 1898.		
NUMBERS OF DAYS WITH RAIN.																									
1898.																									
Jan. 2-8	-	6	6	5	5	5	5	5	3	3	3	4	4	7	7	6	6	5	5	6	6	6	6	6	6
9-15	-	6	12	3	7	0	5	1	6	1	4	1	5	4	11	3	9	2	7	3	9	1	7	2	8
16-22	-	7	19	5	12	3	8	1	7	2	6	3	8	5	16	3	12	3	10	4	13	4	11	4	12
23-29	-	6	25	1	13	1	9	1	8	1	7	0	6	1	9	3	19	2	14	1	11	2	12	2	14
Jan. 30-Feb. 5	-	7	32	6	19	5	14	5	13	5	12	5	11	5	14	6	25	7	21	7	18	7	22	6	18
Feb. 6-12	-	6	38	4	23	2	16	3	16	5	17	3	14	4	18	6	31	6	27	5	23	6	28	4	22
13-19	-	7	45	5	28	4	20	4	20	4	21	4	18	4	22	6	37	6	33	5	28	6	34	4	26
20-26	-	5	50	4	32	5	25	4	24	3	24	4	22	4	26	3	40	3	36	4	32	5	39	4	30
Feb. 27-Mar. 5	-	6	56	5	37	5	30	5	29	4	28	5	27	5	31	5	45	4	40	5	37	6	45	5	35
Mar. 6-12	-	4	60	3	40	2	32	1	30	1	29	1	28	2	33	3	48	1	41	1	38	4	49	2	37
13-19	-	7	67	4	44	3	35	3	33	3	32	3	31	3	36	6	54	4	45	4	42	6	55	4	41
20-26	-	4	71	4	48	5	40	5	38	4	36	4	35	4	40	3	57	3	48	3	45	2	57	1	42
27-April 2	-	6	77	4	52	4	44	3	41	3	39	2	37	3	43	5	62	2	50	3	48	4	61	2	44
April 3-9	-	6	83	5	57	4	48	2	3	42	2	39	3	46	6	68	4	54	4	52	5	66	4	48	5
10-16	-	5	88	5	62	5	53	4	47	5	47	4	43	5	51	5	73	4	58	4	56	6	72	5	53
17-23	-	3	91	3	65	1	54	0	47	0	43	1	52	4	77	2	60	2	58	5	77	4	57	3	66
24-30	-	4	95	5	70	5	59	5	52	5	52	5	48	5	57	3	80	4	64	3	61	4	81	3	60
May 1-7	-	5	100	4	74	5	64	5	57	6	58	6	54	5	62	5	85	5	69	6	67	6	87	5	65
8-14	-	6	106	5	79	5	69	6	63	5	63	6	60	6	68	5	90	6	75	5	72	6	93	5	70
15-21	-	3	109	3	82	4	73	4	67	4	67	4	64	4	72	4	94	4	79	4	76	4	97	4	74
22-28	-	4	113	3	85	2	75	2	69	2	66	2	74	2	76	2	81	3	79	3	79	3	100	3	77
May 29-June 4	-	7	120	6	91	6	81	6	75	6	75	5	71	6	80	7	103	6	87	5	84	7	107	5	82
June 5-11	-	2	122	1	92	2	83	3	78	2	77	4	75	2	82	2	105	1	88	2	86	4	111	3	85
12-18	-	2	124	1	93	1	84	1	79	1	78	1	76	1	83	2	107	1	89	1	87	3	114	2	87
19-25	-	7	131	6	99	6	90	4	83	5	83	3	79	5	88	6	113	6	95	5	92	7	121	6	93
26-July 2	-	3	134	3	102	4	94	4	87	4	87	4	83	4	92	4	117	4	99	3	95	4	125	3	96
July 3-9	-	4	138	3	105	3	97	2	89	0	87	0	83	2	94	3	120	1	100	0	95	2	127	1	97
10-16	-	3	141	1	106	0	97	0	89	0	87	1	84	1	95	2	122	1	101	0	95	2	129	0	97
17-23	-	4	145	2	108	2	99	3	92	3	90	2	86	2	97	3	125	4	105	3	98	4	133	4	101
24-30	-	3	148	3	111	2	101	2	94	2	92	2	88	2	99	2	127	2	107	1	99	2	135	2	103
July 31-Aug. 6	-	6	154	5	116	5	106	3	97	4	96	2	90	4	103	5	132	5	112	3	102	6	141	5	108
Aug. 7-13	-	6	160	4	120	3	109	4	101	3	99	2	92	3	106	5	137	4	116	3	105	5	146	5	113
14-20	-	2	162	4	124	2	111	1	102	2	101	1	93	2	108	4	141	2	118	2	107	4	150	4	117
21-27	-	5	167	3	127	3	114	2	104	4	105	2	95	3	111	4	145	6	124	5	112	5	155	4	121
Aug. 28-Sept. 3	-	6	173	5	132	3	117	2	106	2	107	2	97	3	114	6	151	4	128	3	115	5	160	3	124
Sept. 4-10	-	4	177	2	134	1	118	0	106	0	107	0	97	1	115	3	154	2	130	0	115	4	164	4	128
11-17	-	6	183	4	138	2	120	0	106	1	108	1	98	1	116	5	159	3	133	3	118	4	168	4	132
18-24	-	3	186	3	141	2	122	1	107	1	109	2	100	2	118	3	162	3	136	2	120	3	171	2	134
25-Oct. 1	-	5	191	4	145	2	124	1	108	3	112	2	102	2	120	4	166	3	139	4	124	5	176	4	138
Oct. 2-8	-	1	192	1	146	2	126	2	110	2	114	0	102	1	121	1	167	0	139	2	126	2	178	2	140
9-15	-	4	196	5	151	5	131	4	114	4	118	4	106	5	126	3	170	4	143	5	131	5	183	5	145
16-22	-	6	202	6	157	6	137	6	120	6	124	7	113	6	132	5	175	7	150	7	138	6	189	5	150
23-29	-	6	208	6	163	5	142	3	123	5	129	4	117	5	137	6	181	6	156	6	144	5	194	6	156
Oct. 30-Nov. 5	-	7	215	6	169	5	147	5	128	5	134	5	122	5	142	6	187	7	163	6	150	7	201	6	162
Nov. 6-12	-	3	218	3	172	1	148	2	130	2	136	1	123	2	144	2	189	3	166	3	153	3	204	4	166
13-19	-	4	222	2	174	3	151	2	132	2	138	2	125	2	146	4	193	3	169	3	156	4	208	3	169
20-26	-	6	228	6	180	6	157	6	138	6	144	7	132	6	152	5	198	6	175	7	163	6	214	5	174
Nov. 27-Dec. 3	-	7	235	5	185	6	163	4	142	3	147	5	137	5	157	5	203	5	180	5	168	7	221	7	181
Dec. 4-10	-	7	242	6	191	5	168	4	146	5	152	5	142	5	162	6	209	6	186	6	174	7	228	6	187
11-17	-	7	249	4	195	1	169	2	148	2	154	2	144	2	164	7	216	6	192	5	179	5	233	5	192
18-24	-	7	256	4	199	2	171	3	151	2	156	1	145	2	166	5	221	3	195	2	181	5	238	4	196
25-31	-	6	262	5	204	5	176	5	156	6	162	5	150	5	171	7	228	7	202	7	188	7	245	6	202

TABLE II.—SHOWING THE WEEKLY AND PROGRESSIVE AMOUNTS OF RAINFALL IN EACH DISTRICT DURING THE YEAR 1898.

DATE — LIMITS OF WEEKS.	Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												CHANNEL ISLANDS.	MEANS FOR THE BRITISH ISLANDS GENERALLY.				
	0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.					MEANS FOR GRAZING, &c. DISTRICTS.		
	Weekly.	From Jan. 2/88.	Weekly.	From Jan. 2/88.	Weekly.	From Jan. 2/88.	Weekly.	From Jan. 2/88.	Weekly.	From Jan. 2/88.	Weekly.	From Jan. 2/88.	Weekly.	From Jan. 2/88.	Weekly.	From Jan. 2/88.	Weekly.	From Jan. 2/88.	Weekly.	From Jan. 2/88.	Weekly.	From Jan. 2/88.	Weekly.	From Jan. 2/88.		Weekly.	From Jan. 2/88.	Weekly.	From Jan. 2/88.	
RAINFALL IN INCHES.																														
1898.																														
Jan. 2-8 - -	1'30	1'30	0'45	0'45	0'65	0'65	0'72	0'72	0'51	0'51	0'39	0'39	0'54	0'54	1'59	1'59	1'79	1'79	1'08	1'08	1'02	1'02	1'67	1'67	1'43	1'43	0'50	0'50	0'99	0'99
9-15 - -	1'24	2'54	0'06	0'51	0'00	0'65	0'02	0'74	0'04	0'55	0'02	0'41	0'03	0'57	0'41	2'00	0'16	1'95	0'06	1'14	0'18	1'20	0'05	1'72	0'17	1'60	0'06	0'56	0'10	1'09
16-22 - -	2'13	4'67	0'62	1'13	0'10	0'75	0'02	0'76	0'06	0'61	0'10	0'51	0'18	0'75	1'09	3'09	0'45	2'40	0'37	1'51	0'48	1'68	0'63	2'35	0'61	2'21	0'10	0'66	0'39	1'48
23-29 - -	1'20	5'87	0'04	1'17	0'01	0'76	0'05	0'81	0'04	0'65	0'00	0'51	0'03	0'78	0'21	3'30	0'36	2'76	0'09	1'60	0'22	1'90	0'28	2'63	0'23	2'44	0'01	0'67	0'13	1'61
Jan. 30-Feb. 5 -	2'07	7'94	0'56	1'73	0'43	1'19	0'62	1'43	0'46	1'11	0'39	0'90	0'49	1'27	1'56	4'86	1'25	4'01	0'81	2'41	1'30	3'20	0'74	3'37	1'13	3'57	0'50	1'17	0'81	2'42
Feb. 6-12 - -	1'98	9'92	0'29	2'02	0'05	1'24	0'11	1'54	0'22	1'33	0'17	1'07	0'17	1'44	1'32	6'18	0'57	4'58	0'42	2'83	0'86	4'06	0'60	3'97	0'75	4'32	0'38	1'55	0'46	2'88
13-19 - -	2'31	12'23	0'45	2'47	0'19	1'43	0'14	1'68	0'34	1'67	0'35	1'42	0'30	1'74	0'81	6'99	0'67	5'25	0'49	3'32	0'86	4'92	0'42	4'39	0'65	4'97	0'19	1'74	0'48	3'36
20-26 - -	0'98	13'21	0'63	3'10	0'32	1'75	0'14	1'82	0'18	1'85	0'65	2'07	0'38	2'12	0'94	7'93	0'32	5'57	0'73	4'05	0'83	5'75	0'90	5'29	0'75	5'72	0'94	2'68	0'56	3'92
Feb. 27-Mar. 5 -	1'17	14'38	0'46	3'56	0'43	2'18	0'36	2'18	0'32	2'17	0'31	2'38	0'38	2'50	0'82	8'75	0'50	6'07	0'63	4'68	1'04	6'79	0'50	5'79	0'70	6'42	0'69	3'37	0'54	4'46
Mar. 6-12 - -	0'49	14'87	0'11	3'67	0'06	2'24	0'01	2'19	0'01	2'18	0'07	2'45	0'05	2'55	0'14	8'89	0'06	6'13	0'38	5'06	0'15	6'94	0'16	5'95	0'18	6'60	0'28	3'65	0'12	4'58
13-19 - -	2'83	17'70	0'23	3'90	0'12	2'36	0'13	2'32	0'18	2'36	0'14	2'59	0'16	2'71	1'05	9'94	0'80	6'93	0'53	5'59	0'53	7'47	0'42	6'37	0'67	7'27	0'22	3'87	0'41	4'99
20-26 - -	0'41	18'11	0'34	4'24	0'58	2'94	0'06	3'28	0'36	2'72	0'74	3'33	0'60	3'31	0'15	10'09	0'17	7'10	0'11	5'70	0'07	7'54	0'02	6'39	0'10	7'37	0'44	4'31	0'35	5'34
27-Apr. 2 - -	0'61	18'72	0'58	4'82	0'46	3'40	0'25	3'53	0'14	2'86	0'13	3'46	0'31	3'62	0'37	10'46	0'20	7'30	0'26	5'96	0'23	7'77	0'16	6'55	0'24	7'61	0'11	4'42	0'23	5'62
April 3-9 - -	1'34	20'06	0'46	5'28	0'15	3'55	0'15	3'68	0'24	3'10	0'12	3'58	0'22	3'84	1'29	11'75	0'56	7'86	0'43	6'39	0'90	8'67	0'69	7'24	0'78	8'39	0'14	4'56	0'50	6'12
10-16 - -	1'17	21'23	1'13	6'41	0'97	4'52	0'51	4'19	0'92	4'02	0'40	3'98	0'79	4'63	0'78	12'53	0'98	8'84	0'97	7'36	0'85	9'52	1'72	8'96	1'06	9'45	0'58	5'14	0'92	7'04
17-23 - -	0'42	21'65	0'26	6'67	0'03	4'55	0'01	4'20	0'01	4'03	0'02	4'00	0'07	4'70	0'29	12'82	0'15	8'99	0'29	7'65	0'06	10'48	1'33	10'29	0'80	10'05	0'49	5'63	0'34	7'38
24-30 - -	0'81	22'46	1'48	8'15	1'40	5'95	0'53	4'73	0'80	4'83	0'66	4'66	0'97	5'67	0'72	13'54	0'53	9'52	0'73	8'38	0'46	10'94	0'80	11'09	0'65	10'70	0'62	6'25	0'81	8'19
May 1-7 - -	0'78	23'24	0'77	8'92	0'38	6'33	0'74	5'47	0'82	5'65	0'96	5'62	0'73	6'40	0'75	14'29	0'55	10'07	1'75	10'13	1'29	12'23	1'24	12'33	1'11	11'81	1'19	7'44	0'92	9'11
8-14 - -	0'95	24'19	0'67	9'59	0'47	6'80	0'51	5'98	0'49	6'14	1'07	6'62	0'64	7'04	0'83	15'12	1'32	11'39	0'90	11'03	0'82	13'05	0'77	13'10	0'93	12'74	1'24	8'68	0'78	9'89
15-21 - -	0'38	24'57	0'45	10'04	0'86	7'66	0'69	6'67	0'94	7'08	0'94	7'63	0'78	7'82	0'74	15'86	0'90	12'29	0'85	11'88	0'55	13'60	0'49	13'59	0'71	13'45	0'83	9'51	0'75	10'64
22-28 - -	0'35	24'92	0'07	10'11	0'09	7'75	0'13	6'80	0'44	7'52	0'31	7'94	0'21	8'03	0'12	15'98	0'63	12'97	0'34	12'22	0'16	13'76	0'21	13'80	0'30	13'75	0'30	9'81	0'26	10'90
May 29-June 4 -	1'22	26'14	0'62	10'73	0'58	8'33	0'81	7'61	0'84	8'16	0'45	8'39	0'62	8'65	0'73	16'71	1'04	14'01	0'54	12'76	0'92	14'68	0'73	14'53	0'79	14'54	0'20	10'01	0'71	11'61
June 5-11 - -	0'39	26'53	0'25	10'98	0'21	8'54	1'14	8'75	0'11	8'27	0'59	8'98	0'46	9'11	0'33	17'04	0'09	14'10	0'34	13'10	0'80	15'48	0'61	15'14	0'43	14'97	0'82	10'83	0'45	12'06
12-18 - -	0'41	26'94	0'06	11'04	0'03	8'57	0'06	8'81	0'04	8'31	0'02	9'00	0'04	9'15	0'38	17'42	0'25	14'35	0'34	13'44	0'14	15'62	0'13	15'27	0'25	15'22	0'03	10'86	0'14	12'20
19-25 - -	1'26	28'20	0'67	11'71	0'77	9'34	0'48	9'29	0'51	8'82	0'35	9'35	0'55	9'70	1'39	18'81	1'23	15'58	0'96	14'40	1'42	17'04	1'10	16'37	1'22	16'44	0'89	11'75	0'89	13'09
26-July 2 - -	0'32	28'52	0'14	11'85	0'27	9'61	0'89	10'18	0'63	9'45	0'30	9'65	0'45	10'15	0'32	19'13	0'18	16'06	0'48	14'88	0'16	17'20	0'48	16'85	0'39	16'83	0'28	12'03	0'42	13'51
July 3-9 - -	0'72	29'24	0'38	12'23	0'15	9'76	0'05	10'23	0'02	9'47	0'00	9'65	0'12	10'27	0'28	19'41	0'05	16'11	0'01	14'89	0'05	17'25	0'01	16'86	0'08	16'91	0'00	12'12	0'10	13'61
10-16 - -	0'19	29'43	0'06	12'29	0'01	9'77	0'03	10'26	0'00	9'47	0'02	9'67	0'03	10'30	0'11	19'52	0'01	16'12	0'00	14'89	0'08	17'33	0'00	16'86	0'04	16'95	0'00	12'12	0'04	13'65
17-23 - -	0'79	30'22	0'39	12'68	0'38	10'15	0'21	10'47	0'48	9'95	0'20	9'87	0'33	10'63	0'47	19'99	0'28	16'40	0'39	15'28	0'48	17'81	0'52	17'38	0'43	17'38	0'36	12'48	0'38	14'03
24-30 - -	0'55	30'77	0'25	12'93	0'32	10'47	0'69	11'16	0'21	10'16	0'34	10'21	0'36	10'99	0'22	20'21	0'13	16'53	0'05	15'33	0'12	17'93	0'21	17'59	0'14	17'52	0'05	12'53	0'25	14'28
July 31-Aug. 6 -	1'63	32'45	0'61	13'54	1'18	11'65	0'46	11'62	1'39	11'55	0'22	10'43	0'77	11'76	1'75	21'96	1'99	18'52	1'24	16'57	1'22	19'15	1'28	18'87	1'49	19'01	0'65	13'18	1'13	15'41
Aug. 7-13 - -	1'29	33'74	0'96	14'50	0'38	12'03	0'66	12'28	0'28	11'81	0'71	11'14	0'60	12'36	1'52	23'48	1'16	19'68	0'48	17'05	1'57	20'72	1'59	20'46	1'27	20'28	0'84</			

TABLE III.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF ACCUMULATED HEAT ABOVE 42° F. IN EACH DISTRICT DURING THE YEAR 1898.

DATE.	LIMITS OF WEEKS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.														CHANNEL ISLANDS.	MEANS FOR THE BRITISH ISLANDS GENERALLY.
		0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR GRAZING, &c. DISTRICTS.					
		Weekly.	From Jan. 2, 1898.	Weekly.	From Jan. 2, 1898.	Weekly.	From Jan. 2, 1898.	Weekly.	From Jan. 2, 1898.	Weekly.	From Jan. 2, 1898.	Weekly.	From Jan. 2, 1898.	Weekly.	From Jan. 2, 1898.	Weekly.	From Jan. 2, 1898.	Weekly.	From Jan. 2, 1898.	Weekly.	From Jan. 2, 1898.	Weekly.	From Jan. 2, 1898.	Weekly.	From Jan. 2, 1898.	Weekly.	From Jan. 2, 1898.				
DAY-DEGREES ABOVE 42° FAHRENHEIT.																															
1898.																															
Jan. 2-8	-	5	5	8	8	19	19	15	15	22	22	28	28	18	18	19	19	22	22	30	30	21	21	28	28	24	24	46	46	21	21
9-15	-	23	28	24	32	21	40	7	22	8	30	16	44	15	33	24	43	19	41	23	53	23	44	30	58	24	48	26	72	19	40
16-22	-	23	51	27	59	32	72	27	49	29	59	27	71	29	62	31	74	28	69	43	96	35	79	60	118	39	87	51	123	34	74
23-29	-	27	78	31	90	31	103	11	60	21	80	16	87	22	84	34	108	25	94	21	117	31	110	43	161	31	118	28	151	27	101
Jan. 30-Feb. 5	-	8	86	12	102	23	131	26	86	26	106	27	114	24	108	20	128	25	119	30	147	28	138	35	196	28	146	41	192	26	127
Feb. 6-12	-	8	94	11	113	14	145	14	100	16	122	28	142	17	125	19	147	20	139	27	174	23	161	27	223	23	169	34	226	20	147
13-19	-	2	96	7	120	13	158	14	114	13	135	25	167	14	139	10	157	17	156	28	202	22	183	30	253	21	190	43	269	18	165
20-26	-	0	96	0	120	1	159	6	120	3	138	6	173	3	142	2	159	1	157	5	207	6	189	9	262	5	195	23	292	4	169
Feb. 27-Mar. 5	-	0	96	0	120	6	165	10	130	10	148	13	186	8	150	4	163	6	163	13	220	5	194	11	273	8	203	22	314	8	177
Mar. 6-12	-	11	107	15	135	11	176	3	133	5	153	3	189	7	157	13	176	9	172	7	227	17	211	17	290	13	216	10	324	10	187
13-19	-	16	123	33	168	33	209	43	176	38	191	36	225	37	194	27	203	27	199	33	260	30	241	38	328	31	247	40	364	34	221
20-26	-	8	131	10	178	9	218	8	184	11	202	10	235	9	203	12	215	8	207	14	274	19	260	19	347	14	261	20	384	12	233
27-April 2	-	10	141	10	188	8	226	15	199	16	218	16	251	13	216	13	228	12	219	17	291	15	275	18	365	15	276	25	409	14	247
April 3-9	-	29	170	38	226	45	271	53	252	53	271	46	297	47	263	35	263	40	259	42	333	44	319	54	419	43	319	57	466	45	292
10-16	-	32	202	40	266	40	311	48	300	46	317	45	342	44	307	36	299	39	298	41	374	40	359	42	461	40	359	60	526	42	334
17-23	-	36	238	39	305	32	343	40	340	51	368	41	383	40	347	42	341	44	342	42	416	46	405	48	509	44	403	55	581	42	376
24-30	-	37	275	30	335	26	369	45	385	46	414	46	429	39	386	39	380	40	382	44	460	42	447	45	554	42	445	60	641	41	417
May 1-7	-	45	320	51	386	47	416	57	442	52	456	64	493	54	440	46	426	52	434	54	514	45	492	52	606	50	495	71	712	52	469
8-14	-	27	347	37	423	40	456	49	471	52	518	63	556	48	488	37	463	41	475	56	570	41	533	54	660	46	541	66	778	47	516
15-21	-	47	394	47	470	36	492	45	536	45	563	48	604	44	532	49	512	41	516	44	614	51	584	56	716	48	589	65	843	46	562
22-28	-	37	431	43	513	41	533	67	603	72	635	85	689	62	594	69	581	77	593	88	702	68	652	80	796	76	665	94	937	69	631
May 29-June 4	-	32	463	46	559	50	583	58	651	53	688	71	760	56	650	46	627	53	646	63	765	53	705	69	865	57	722	82	1019	57	688
June 5-11	-	81	544	87	646	90	673	107	768	112	800	117	877	103	753	97	724	109	755	110	875	95	800	97	962	102	824	98	1117	102	790
12-18	-	81	625	85	731	74	747	81	849	82	882	90	967	82	835	99	823	96	851	98	973	103	903	116	1078	102	926	99	1216	92	882
19-25	-	76	701	93	824	111	858	122	971	115	997	120	1087	112	947	94	917	102	953	111	1084	87	990	106	1184	100	1026	114	1330	106	988
26-July 2	-	81	782	90	914	94	952	111	1082	103	1100	117	1204	103	1050	95	1012	98	1051	105	1189	94	1084	103	1287	99	1125	114	1444	101	1089
July 3-9	-	77	859	93	1007	102	1054	109	1191	107	1207	124	1328	107	1157	97	1103	106	1157	116	1305	96	1180	113	1400	103	1231	127	1571	107	1196
10-16	-	98	957	116	1123	112	1166	118	1307	127	1334	130	1458	120	1277	111	1220	116	1273	132	1437	113	1293	139	1539	122	1353	141	1712	121	1317
17-23	-	76	1033	97	1220	115	1281	130	1437	130	1464	145	1603	124	1401	106	1326	125	1398	135	1572	120	1413	139	1678	125	1478	153	1865	124	1441
24-30	-	79	1112	95	1315	99	1380	115	1552	113	1577	133	1736	111	1512	97	1423	107	1505	130	1702	98	1511	119	1797	110	1588	147	2012	111	1552
July 31-Aug. 6	-	89	1201	103	1418	125	1505	133	1685	130	1707	134	1870	125	1637	106	1529	123	1628	124	1826	112	1623	128	1925	119	1707	141	2153	122	1674
Aug. 7-13	-	98	1297	111	1529	118	1623	125	1810	123	1830	129	1999	121	1758	113	1642	127	1755	125	1951	111	1734	124	2049	120	1827	142	2295	121	1795
14-20	-	104	1401	104	1633	127	1750	160	1970	156	1986	181	2180	146	1904	125	1767	140	1895	159	2110	120	1854	134	2183	136	1963	175	2470	141	1936
21-27	-	105	1506	113	1746	127	1877	146	2116	139	2125	155	2335	136	2040	116	1883	131	2026	141	2251	123	1977	131	2314	128	2091	160	2630	132	2068
Aug. 28-Sept. 3	-	76	1582	95	1841	106	1983	112	2228	109	2234	127	2462	110	2150	98	1981	109	2135	111	2362	106	2083	123	2437	110	2201	139	2769	110	2178
Sept. 4-10	-	134	1716	153	1994	153	2136	174	2402	172	2406	186	2648	168	2318	146	2127	159	2294	161	2523	146	2229	147	2584	152	2353	179	2948	160	2338
11-17	-	96	1812	111	2105	141	2277	151	2553	142	2548	156	2804	140	2458	122	2249	142	2436	139	2662	128	2357	137	2721	133	2486	148	3096	137	2475
18-24	-	56	1868	61	2166	83	2360	103	26																						

TABLE IV.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF ACCUMULATED HEAT BELOW
42° F. IN EACH DISTRICT DURING THE YEAR 1898.

DATE. — LIMITS OF WEEKS.	Principal Wheat-producing Districts.											Principal Grazing, &c. Districts.											CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.					
	0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT PRODUCING DIS- TRICTS.		6. SCOTLAND W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.						10. IRELAND, S.		MEANS FOR GRAZ- ING, &c. Dis- TRICTS.	
	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.			
DAY-DEGREES BELOW 42° FAHRENHEIT.																														
1898.																														
Jan. 2-8 - -	33	33	29	29	11	11	16	16	14	14	4	4	15	15	11	11	3	3	4	4	12	12	4	4	7	7	0	0	11	11
9-15 - -	8	41	13	42	12	23	26	42	27	41	10	14	18	33	2	13	9	12	9	13	4	16	2	6	5	12	4	4	12	23
16-22 - -	9	50	11	53	6	29	6	48	4	45	0	14	5	38	0	13	0	12	0	13	0	16	0	6	0	12	0	4	2	25
23-29 - -	0	50	5	58	12	41	23	71	13	58	4	18	11	49	0	13	0	12	0	13	0	16	0	6	0	12	0	4	6	31
Jan. 30-Feb. 5 -	25	75	24	82	11	52	14	85	11	69	7	25	13	62	8	21	6	18	3	16	10	26	4	10	6	18	0	4	10	41
Feb. 6-12 - -	25	100	25	107	25	77	29	114	29	98	14	39	25	87	11	32	9	27	8	24	10	36	5	15	9	27	1	5	17	58
13-19 - -	31	131	31	138	26	103	25	139	22	120	8	47	22	109	21	53	10	37	5	29	13	49	5	20	11	38	0	5	16	74
20-26 - -	46	177	55	193	46	149	50	189	53	173	40	87	49	138	40	99	40	77	41	70	40	89	38	58	41	79	13	18	45	119
Feb. 27-Mar. 5 -	46	223	35	228	29	173	35	224	33	206	29	116	32	150	30	129	24	101	26	96	31	120	24	82	27	106	4	22	30	149
Mar. 6-12 - -	33	256	41	269	41	219	42	266	49	255	30	146	40	230	29	158	38	139	37	133	30	150	28	110	33	139	17	39	36	185
13-19 - -	15	271	13	282	11	230	17	283	11	266	8	154	12	242	7	165	6	145	3	136	5	155	0	110	4	143	0	39	8	193
20-26 - -	30	301	31	313	35	265	42	325	44	310	36	190	35	280	30	195	30	175	35	171	27	182	19	129	28	171	10	49	33	226
27-April 2 - -	31	332	38	351	36	301	40	365	38	348	28	218	36	316	31	226	28	203	28	199	28	210	29	158	29	200	6	55	33	259
April 3-9 - -	13	345	13	364	9	310	12	377	12	360	6	224	10	326	5	231	4	207	2	201	3	213	0	158	3	203	0	55	7	266
10-16 - -	7	352	7	371	1	311	4	381	5	365	0	224	4	330	1	232	0	207	0	201	6	219	6	164	2	205	0	55	3	269
17-23 - -	3	355	8	379	9	320	18	399	20	385	10	234	13	343	0	232	7	214	4	205	0	219	0	164	2	207	0	55	7	276
24-30 - -	4	359	7	386	3	323	7	406	10	395	0	234	5	348	0	232	1	215	0	205	2	221	1	165	1	208	0	55	3	279
May 1-7 - -	2	361	4	390	0	323	0	406	1	396	0	234	1	349	0	232	0	215	0	205	2	223	0	165	1	209	0	55	1	280
8-14 - -	15	376	13	403	326	0	406	0	396	0	234	3	352	5	237	0	215	0	205	1	224	0	165	1	210	0	55	2	282	
15-21 - -	15	391	18	421	6	332	4	410	8	424	0	234	7	359	8	245	0	215	0	205	3	227	0	165	2	212	0	55	5	287
22-28 - -	1	392	2	423	0	332	0	410	0	424	0	234	1	360	0	245	0	215	0	205	0	227	0	165	0	212	0	55	0	287
May 29-June 4 -	3	395	4	427	1	333	0	410	0	404	0	234	1	361	0	245	0	215	0	205	0	227	0	165	0	212	0	55	1	288
June 5-11 - -	0	395	0	427	0	333	0	410	0	404	0	234	0	361	0	245	0	215	0	205	0	227	0	165	0	212	0	55	0	288
12-18 - -	0	395	0	427	0	333	0	410	0	404	0	234	0	361	0	245	0	215	0	205	0	227	0	165	0	212	0	55	0	288
19-25 - -	0	395	0	427	0	333	0	410	0	404	0	234	0	361	0	245	0	215	0	205	0	227	0	165	0	212	0	55	0	288
26-July 2 - -	0	395	0	427	0	333	0	410	0	404	0	234	0	361	0	245	0	215	0	205	0	227	0	165	0	212	0	55	0	288
July 3-9 - -	0	395	0	427	0	333	0	410	0	404	0	234	0	361	0	245	0	215	0	205	0	227	0	165	0	212	0	55	0	288
10-16 - -	0	395	0	427	0	333	0	410	0	404	0	234	0	361	0	245	0	215	0	205	0	227	0	165	0	212	0	55	0	288
17-23 - -	0	395	0	427	0	333	0	410	0	404	0	234	0	361	0	245	0	215	0	205	0	227	0	165	0	212	0	55	0	288
24-30 - -	0	395	0	427	0	333	0	410	0	404	0	234	0	361	0	245	0	215	0	205	0	227	0	165	0	212	0	55	0	288
July 31-Aug. 6 -	0	395	0	427	0	333	0	410	0	404	0	234	0	361	0	245	0	215	0	205	0	227	0	165	0	212	0	55	0	288
Aug. 7-13 - -	0	395	0	427	0	333	0	410	0	404	0	234	0	361	0	245	0	215	0	205	0	227	0	165	0	212	0	55	0	288
14-20 - -	0	395	0	427	0	333	0	410	0	404	0	234	0	361	0	245	0	215	0	205	0	227	0	165	0	212	0	55	0	288
21-27 - -	0	395	0	427	0	333	0	410	0	404	0	234	0	361	0	245	0	215	0	205	0	227	0	165	0	212	0	55	0	288
Aug. 28-Sept. 3 -	0	395	0	427	0	333	0	410	0	404	0	234	0	361	0	245	0	215	0	205	0	227	0	165	0	212	0	55	0	288
Sept. 4-10 - -	0	395	0	427	0	333	0	410	0	404	0	234	0	361	0	245	0	215	0	205	0	227	0	165	0	212	0	55	0	288
11-17 - -	0	395	0	427	0	333	0	410	0	404	0	234	0	361	0	245	0	215	0	205	0	227	0	165	0	212	0	55	0	288
18-24 - -	0	395	0	427	0	333	0	410	0	404	0	234	0	361	0	245	0	215	0	205	0	227	0	165	0	212	0	55	0	288
25-Oct. 1 - -	0	395	0	427	0	333	0	410	8	412	0	234	2	363	0	245	0	215	0	205	0	227	0	165	0	212	0	55	1	289
Oct. 2-8 - -	0	395	0	427	0	333	0	410	0	412	0	234	0	363	0	245	0	215	0	205	0	227	0	165	0	212				

TABLE V.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF HOURS OF BRIGHT SUNSHINE
IN EACH DISTRICT REGISTERED DURING THE YEAR 1898.

DATE.	LIMITS OF WEEKS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.										CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.			
		0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.						MEANS FOR GRAZING, &c. DISTRICTS.	
		Weekly.	From Jan. 2/98.	Weekly.	From Jan. 2/98.	Weekly.	From Jan. 2/98.	Weekly.	From Jan. 2/98.	Weekly.	From Jan. 2/98.	Weekly.	From Jan. 2/98.	Weekly.	From Jan. 2/98.	Weekly.	From Jan. 2/98.	Weekly.	From Jan. 2/98.	Weekly.	From Jan. 2/98.	Weekly.	From Jan. 2/98.	Weekly.	From Jan. 2/98.	Weekly.	From Jan. 2/98.	Weekly.	From Jan. 2/98.		
NUMBERS OF HOURS OF BRIGHT SUNSHINE.																															
1898.																															
Jan. 2-8	-	11	11	8	8	12	12	10	10	12	12	14	14	11	11	6	6	9	9	12	12	6	6	5	5	7	7	15	15	9	9
9-15	-	6	17	3	11	3	15	4	14	6	18	4	18	4	15	3	9	5	14	13	25	6	12	12	17	8	15	20	35	6	15
16-22	-	4	21	5	16	4	19	1	15	5	23	7	25	4	19	5	14	4	18	7	32	2	14	7	24	5	20	19	54	5	20
23-29	-	4	25	10	26	10	29	6	21	3	26	3	28	7	26	4	18	5	23	3	35	6	20	7	31	5	25	3	57	6	26
Jan. 30-Feb. 5	-	9	34	18	44	17	46	21	42	14	40	17	45	17	43	10	28	12	35	13	48	5	25	7	38	9	34	16	73	13	39
Feb. 6-12	-	10	44	22	66	19	65	13	55	15	55	20	65	18	61	22	50	17	52	15	63	17	42	21	62	19	53	28	101	19	58
13-19	-	8	52	18	84	16	81	18	73	14	69	16	81	17	78	14	64	13	65	16	79	9	51	11	73	13	66	19	120	15	73
20-26	-	19	71	25	109	30	111	38	111	33	102	25	106	30	108	30	94	40	105	31	110	34	85	34	107	34	100	26	146	32	105
Feb. 27-Mar. 5	-	16	87	29	138	35	146	28	139	28	130	31	137	30	138	29	123	37	142	39	149	33	118	38	145	35	135	31	177	33	138
Mar. 6-12	-	26	113	32	170	31	177	20	159	16	146	18	155	23	161	20	143	31	173	36	185	21	142	25	170	27	162	27	204	25	163
13-19	-	15	128	21	191	21	198	23	182	20	166	16	171	20	181	18	161	20	193	19	204	14	156	9	179	16	178	18	222	18	181
20-26	-	32	160	31	222	28	226	28	210	29	195	28	199	29	210	45	206	45	238	44	248	49	205	48	227	46	224	37	259	37	218
27-April 2	-	33	193	23	245	21	247	31	241	21	216	28	227	25	235	26	232	23	261	29	277	23	228	28	255	26	250	33	292	26	244
April 3-9	-	26	219	26	271	31	278	45	286	42	258	46	273	38	273	33	265	39	300	45	322	33	261	34	289	37	287	58	350	37	281
10-16	-	34	253	33	304	24	302	34	320	34	292	35	308	32	305	37	302	38	338	45	367	44	305	40	338	42	329	54	404	37	318
17-23	-	19	272	20	324	29	331	47	367	43	335	45	353	37	342	25	327	37	375	49	416	33	338	28	366	34	363	58	462	36	354
24-30	-	30	302	14	338	10	341	23	390	17	352	29	382	18	360	19	346	21	396	38	454	30	368	40	406	30	393	40	502	24	378
May 1-7	-	43	345	46	384	35	376	35	425	35	387	35	417	37	397	44	390	38	434	41	495	41	409	38	444	40	433	41	543	39	417
8-14	-	35	380	33	417	31	407	31	456	37	424	35	452	34	431	40	430	40	474	40	535	36	447	36	480	39	472	35	578	37	454
15-21	-	68	448	54	471	35	442	37	493	37	461	32	484	39	470	49	479	42	516	41	576	59	506	49	529	48	520	40	618	43	497
22-28	-	29	477	31	502	33	475	49	542	29	490	38	522	36	506	57	536	58	574	42	618	39	545	39	568	47	567	52	670	41	538
May 29-June 4	-	28	505	30	532	23	498	36	578	28	518	34	556	30	536	28	564	26	600	37	655	23	568	27	595	28	595	51	721	29	567
June 5-11	-	49	554	44	576	41	539	45	623	55	573	39	595	45	581	59	623	61	661	65	720	42	610	52	647	56	651	60	781	50	617
12-18	-	40	594	38	614	27	566	22	645	34	607	33	628	31	612	42	665	43	704	63	783	34	644	49	696	46	697	66	847	39	656
19-25	-	17	611	33	647	33	599	40	685	43	650	40	668	38	650	28	693	31	735	39	822	29	673	40	736	34	731	43	890	36	692
26-July 2	-	35	646	42	689	38	637	43	728	43	693	47	715	42	692	39	732	42	777	58	880	35	708	32	768	41	772	50	940	42	734
July 3-9	-	35	681	55	744	48	685	44	772	55	748	53	768	51	743	55	787	55	832	85	965	50	758	65	833	62	834	92	1032	57	791
10-16	-	44	725	52	796	59	744	59	831	61	809	53	821	56	799	56	843	64	896	62	1027	42	800	56	889	56	890	75	1107	56	847
17-23	-	36	761	41	837	36	780	39	870	37	846	41	862	39	838	35	878	32	928	35	1062	23	823	26	918	31	921	48	1155	35	882
24-30	-	30	791	41	878	39	819	29	899	40	886	30	892	36	874	61	939	62	990	39	1101	40	863	42	960	49	970	53	1208	42	924
July 31-Aug. 6	-	26	817	29	907	36	855	53	952	40	926	56	948	43	917	20	959	25	1015	39	1140	15	878	20	980	24	994	65	1273	34	958
Aug. 7-13	-	37	854	52	959	32	887	40	992	56	962	40	988	40	957	43	1002	37	1052	43	1183	40	918	40	1020	41	1035	55	1328	40	998
14-20	-	43	897	25	984	27	914	56	1048	37	999	66	1054	42	999	26	1030	30	1082	44	1227	38	956	44	1064	37	1072	66	1394	40	1038
21-27	-	26	923	38	1022	34	948	42	1090	35	1034	37	1091	37	1036	28	1058	35	1117	36	1263	25	981	28	1092	30	1102	44	1438	33	1071
Aug. 28-Sept. 3	-	19	942	28	1050	32	980	53	1143	43	1077	60	1151	43	1079	21	1079	27	1144	55	1318	20	1001	31	1123	31	1133	59	1497	37	1108
Sept. 4-10	-	44	986	41	1091	37	1017	59	1202	54	1131	64	1215	51	1130	35	1114	37	1181	56	1374	50	1051	50	1173	46	1179	64	1561	49	1157
11-17	-	29	1015	33	1124	33	1050	60	1262	45	1176	53	1268	45	1175	27	1141	33	1214	40	1414	20	1071	25	1198	20	1208	51	1612	37	1194
18-24	-	31	1046	33	1157	19	1069	30	1292	35	1211	40	1308	32	1207	31	1172	35	1249	50	1464	32	1103	44	1242	38	1246	60	1672	35	1229
25-Oct. 1	-	16	1062	13	1170	22	1091	38	1330	32	1243	38	1346	28	1235	11	1183	23	1												

TABLE VI.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES FOR THE PERCENTAGES OF THE POSSIBLE DURATION OF BRIGHT SUNSHINE IN EACH DISTRICT WHICH WAS ACTUALLY RECORDED DURING THE YEAR 1898.

DATE. LIMITS OF WEEKS.	Principal Wheat-producing Districts.																Principal Grazing, &c. Districts.										CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.			
	0. SCOTLAND, N.		1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT PRODUCING DIS- TRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR GRAZ- ING, &c. DIS- TRICTS.							
	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.	Weekly. From Jan. 2/98.			
PERCENTAGES OF POSSIBLE DURATION.																																
1898.																																
Jan. 2-8 - -	23	23	17	17	23	23	19	19	23	23	26	26	21	22	11	11	18	18	21	21	12	12	9	9	14	14	26	26	18	18		
9-15 - - -	13	18	6	12	6	11	8	13	12	17	8	16	8	14	6	10	9	14	22	12	12	12	22	16	14	15	34	32	11	15		
16-22 - - -	9	15	9	11	7	10	3	9	9	14	12	15	8	12	10	7	13	11	18	5	9	12	15	9	13	30	34	8	13			
23-29 - - -	7	13	17	13	18	12	10	9	4	11	5	13	11	12	7	10	8	12	5	15	11	9	12	14	9	12	4	27	10	12		
Jan. 30-Feb. 5 - -	16	13	30	17	29	17	34	15	23	14	27	16	29	16	17	12	19	14	20	16	9	9	11	14	15	13	25	27	22	15		
Feb. 6-12 - - -	17	14	35	21	30	19	19	16	22	15	31	17	27	18	24	16	26	17	22	18	27	13	37	18	27	16	42	32	27	17		
13-19 - - -	12	13	28	22	24	20	25	18	21	16	23	20	24	19	22	18	19	17	23	19	13	13	16	18	19	17	27	30	22	18		
20-26 - - -	27	16	37	24	42	23	53	23	45	21	34	22	42	23	43	22	56	24	43	22	48	18	47	22	47	22	35	31	44	23		
Feb. 27-Mar. 5 - -	21	16	39	26	47	27	37	25	37	23	41	25	40	25	40	25	50	28	51	26	44	22	51	26	47	25	41	32	44	25		
Mar. 6-12 - - -	34	18	41	28	40	28	25	25	20	23	22	25	30	26	26	25	40	30	45	28	30	23	32	27	35	27	34	31	33	27		
13-19 - - -	18	18	25	28	26	28	20	25	24	23	20	25	25	26	23	24	25	29	21	28	16	22	10	25	19	26	22	30	22	26		
20-26 - - -	37	20	36	29	33	29	33	26	34	25	33	26	34	27	52	28	52	32	52	31	57	26	56	29	54	29	44	31	44	28		
27-April 2 - - -	37	22	25	29	24	29	34	27	23	25	32	27	28	27	29	28	26	32	33	31	26	26	31	29	29	38	32	28	28			
April 3-9 - - -	28	23	23	29	34	30	49	29	46	27	50	29	42	29	36	29	43	33	40	33	37	27	37	30	40	30	63	36	41	30		
10-16 - - -	34	24	34	29	25	29	35	29	36	28	37	30	33	29	39	30	40	34	48	34	46	29	52	32	45	32	58	38	39	31		
17-23 - - -	18	24	20	29	29	30	48	31	44	29	46	32	37	30	25	30	37	34	50	35	33	29	28	32	35	32	59	39	36	31		
24-30 - - -	23	24	13	27	10	28	23	30	17	29	29	32	18	29	19	29	20	33	38	36	30	29	40	32	29	32	40	39	24	31		
May 1-7 - - -	39	25	42	29	33	28	34	31	34	29	34	32	35	30	41	30	36	33	40	36	38	30	38	33	38	32	39	39	37	31		
8-14 - - -	31	26	30	29	28	28	29	30	35	29	33	32	31	30	36	31	37	34	37	36	35	31	33	33	36	33	34	39	34	32		
15-21 - - -	58	28	47	30	31	28	33	31	33	30	29	32	35	30	44	32	38	34	38	36	53	32	44	34	43	34	38	39	39	32		
22-28 - - -	25	28	27	30	29	29	45	32	26	30	35	32	32	31	49	33	51	35	38	36	34	32	35	34	41	34	48	39	37	33		
May 29-June 4 - -	23	27	25	30	19	28	31	31	24	29	31	32	26	30	24	33	23	34	33	36	20	32	23	33	25	34	47	40	26	32		
June 5-11 - - -	40	28	37	30	35	29	39	32	47	34	34	32	38	31	50	34	53	36	58	38	36	32	45	34	48	35	54	40	43	33		
12-18 - - -	33	29	31	30	23	29	19	31	20	30	29	32	26	30	35	34	37	36	55	38	29	32	43	34	40	35	59	42	33	33		
19-25 - - -	13	28	28	30	28	29	35	31	37	31	35	32	33	30	24	33	26	35	34	38	25	31	34	34	29	34	38	41	31	32		
26-July 2 - - -	28	28	35	30	32	29	38	32	37	31	41	33	37	31	32	34	36	35	51	39	30	31	28	34	35	35	45	41	36	33		
July 3-9 - - -	28	28	46	31	40	30	39	32	47	32	47	34	44	32	46	34	47	36	75	41	43	32	56	35	54	36	83	44	49	34		
10-16 - - -	36	28	44	32	51	31	52	33	54	33	48	34	50	33	48	35	56	37	56	41	37	32	49	36	49	36	69	45	50	35		
17-23 - - -	30	28	35	32	31	30	35	33	33	33	38	34	34	32	30	35	28	36	32	41	20	31	26	35	27	36	44	45	31	34		
24-30 - - -	26	29	36	32	35	31	27	33	37	33	28	34	33	33	54	36	54	37	37	41	37	32	38	35	44	36	50	45	38	35		
July 31-Aug. 6 - -	23	28	20	32	33	31	50	33	36	33	54	35	40	33	18	35	23	37	37	41	14	31	19	35	22	36	62	46	28	35		
Aug. 7-13 - - -	34	28	48	32	31	31	39	33	35	33	39	35	38	33	40	35	36	37	42	41	38	31	38	35	39	36	54	47	39	35		
14-20 - - -	41	29	24	32	26	31	56	34	37	33	66	36	42	33	27	35	30	36	45	41	37	31	44	35	37	36	67	47	40	35		
21-27 - - -	24	29	38	32	34	31	44	34	36	34	38	36	38	33	28	35	36	36	37	41	25	31	29	35	31	36	45	47	35	35		
Aug. 28-Sept. 3 - -	20	28	29	32	34	31	57	35	45	34	64	37	46	34	22	34	29	36	58	41	21	31	33	35	33	35	64	48	40	35		
Sept. 4-10 - - -	47	29	45	32	41	31	64	36	59	35	71	38	56	34	38	35	41	36	62	42	55	31	54	35	50	36	70	49	53	35		
11-17 - - -	32	29	37	33	37	31	69	37	51	35	60	39	51	35	31	34	38	36	45	42	23	31	28	35	33	36	58	49	42	35		
18-24 - - -	37	29	39	33	22	31	36	36	41	35	47	39	37	35	36	34	41	36	59	42	38	31	52	35	45	36	71	50	41	36		
25-Oct. 1 - - -	19	29	16	32	26	31	47	37	40	35	46	39	35	35	13	34	32	36	46	42	35	31	44	36	34	36	57	50	35	36		
Oct. 2-8 - - -	62	30	44	32	30	31	32	37	23	35	31	39	32	35	33	33	28	36	31	42	26	31	38	36	31	36	57	50	32	36		
9-15 - - -	34	30	12	32	21	31	27	36																								